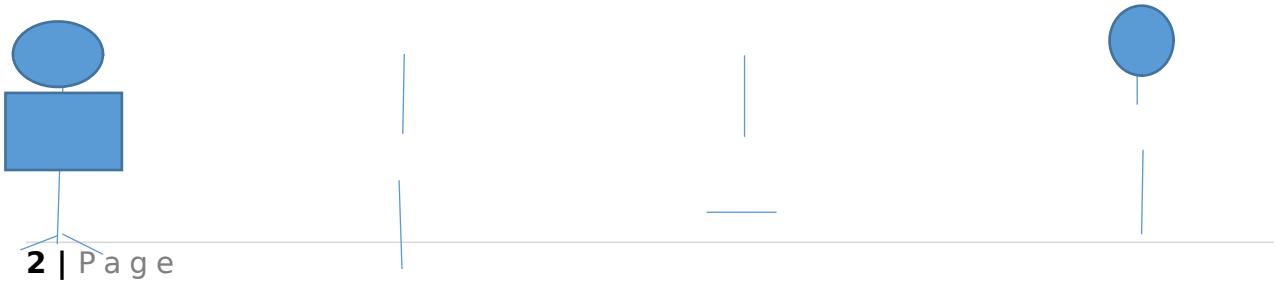

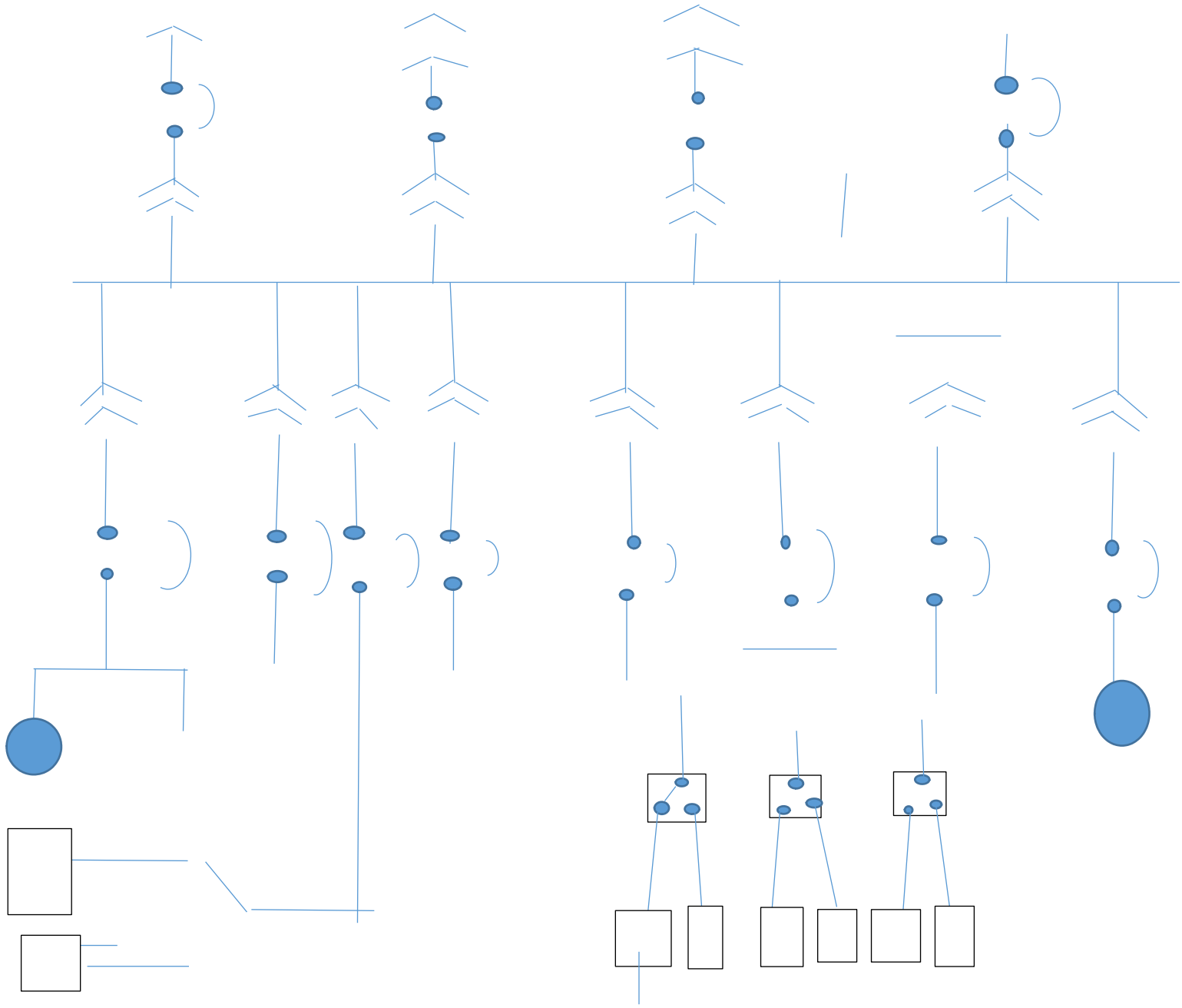

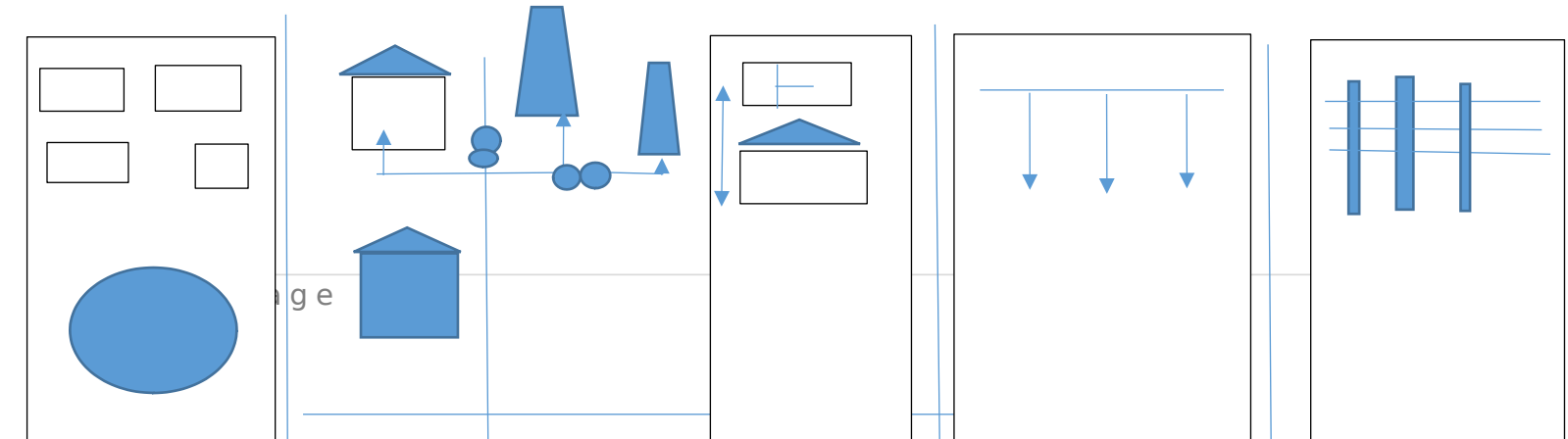

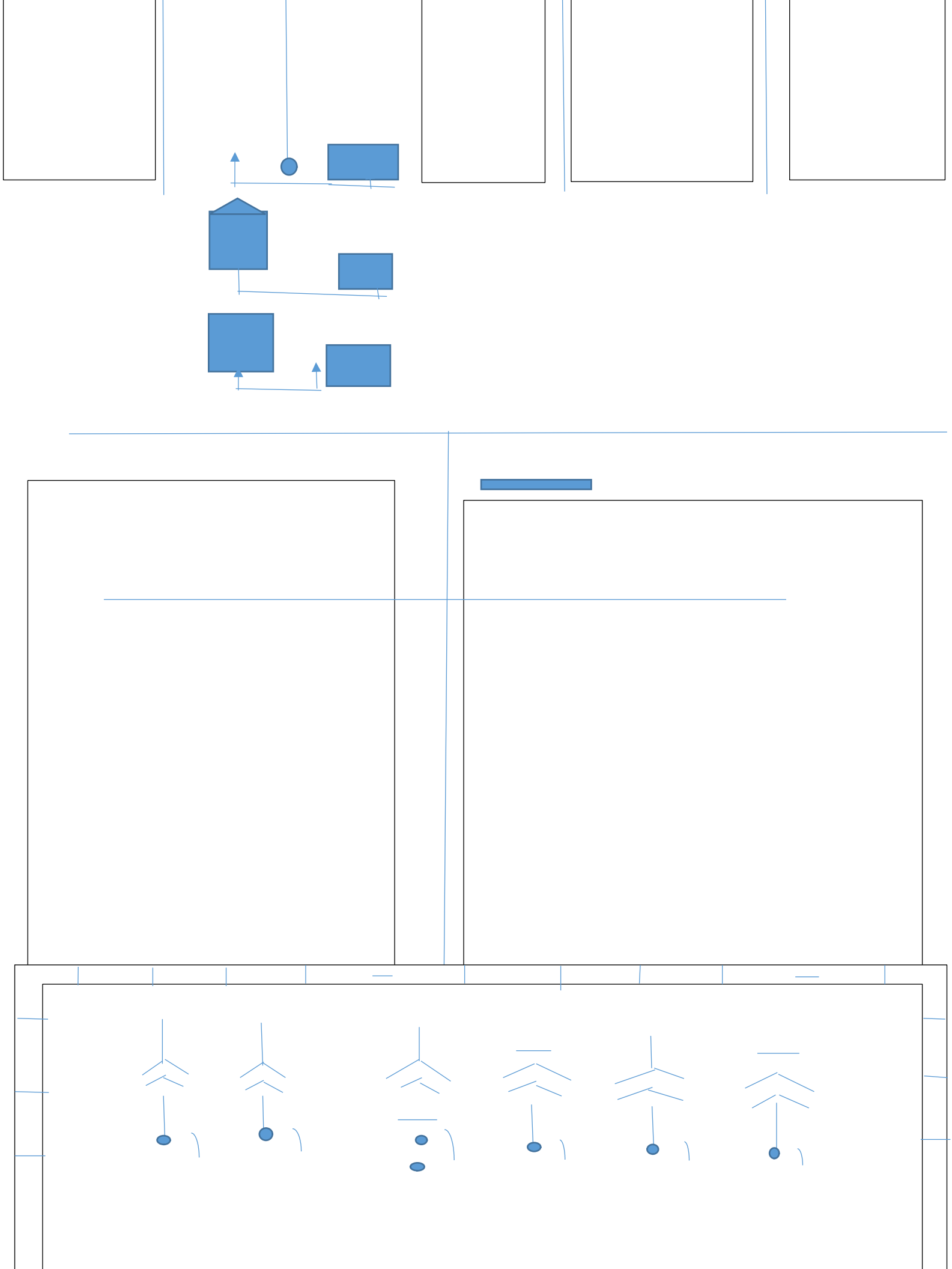

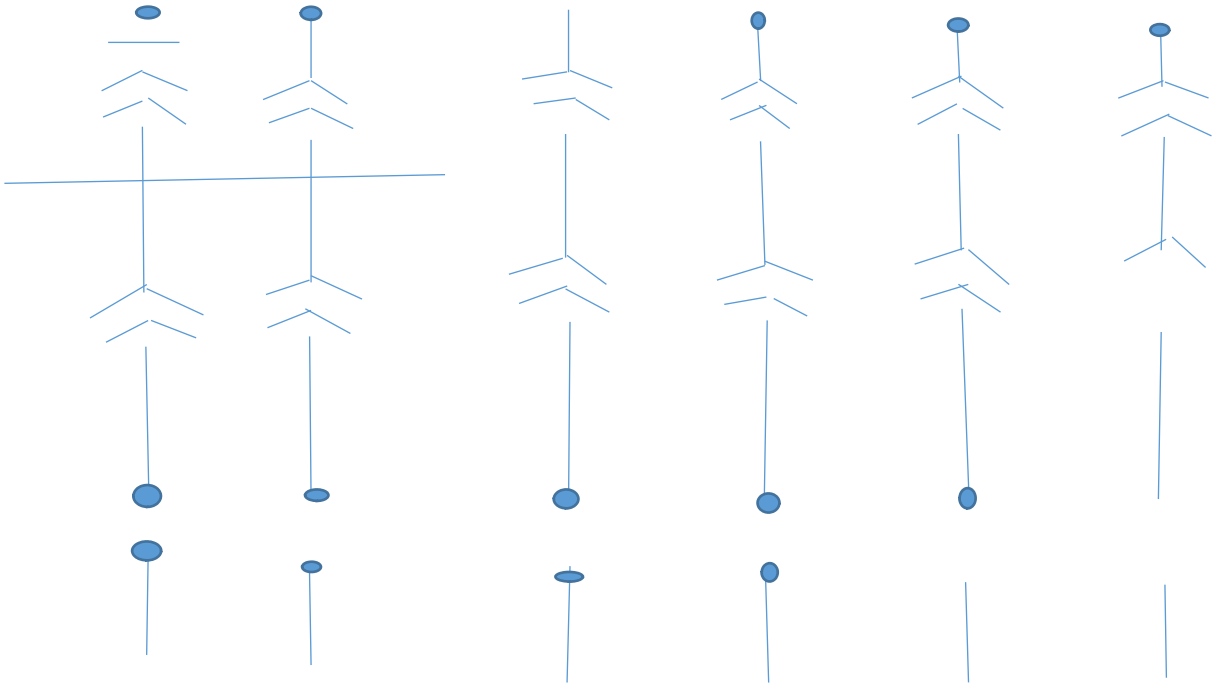

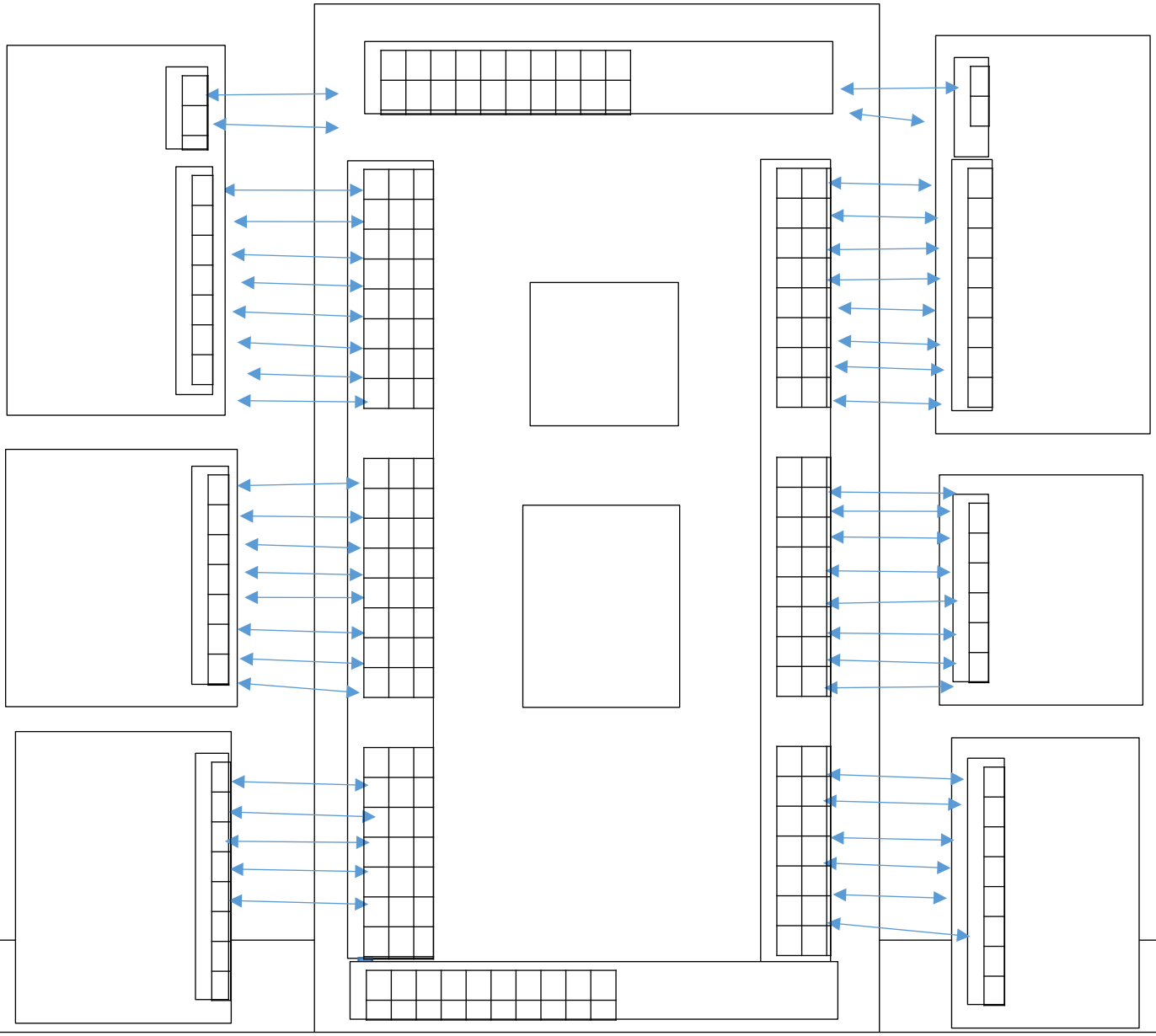

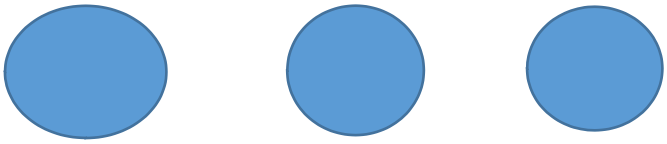

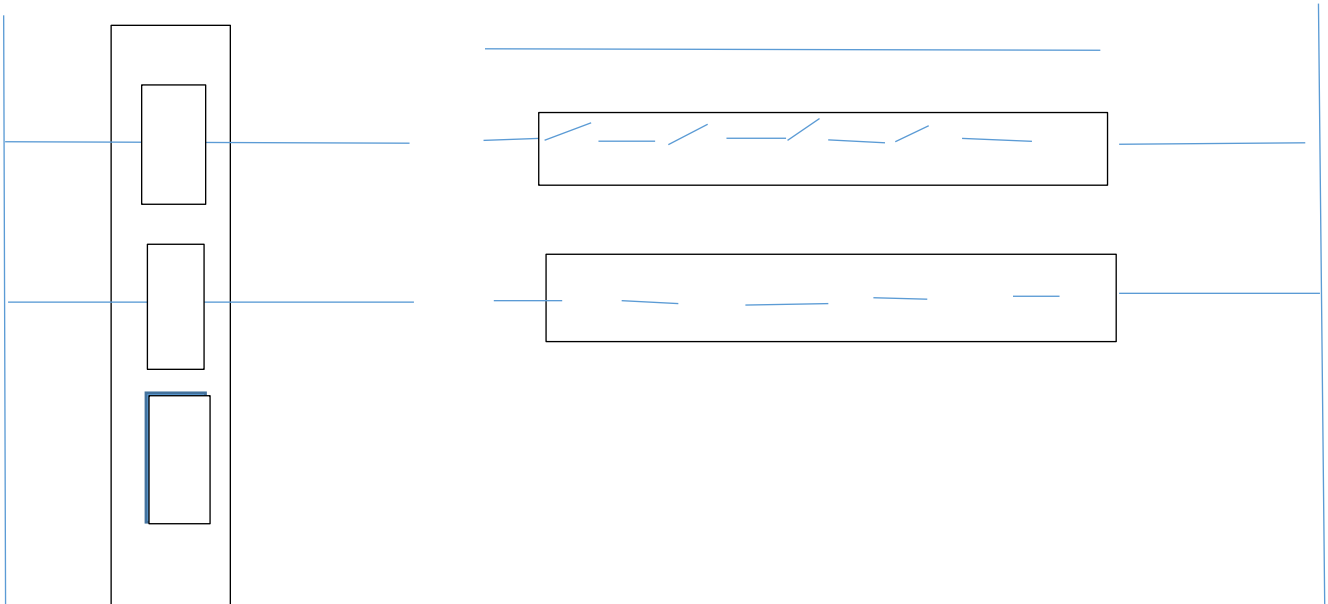

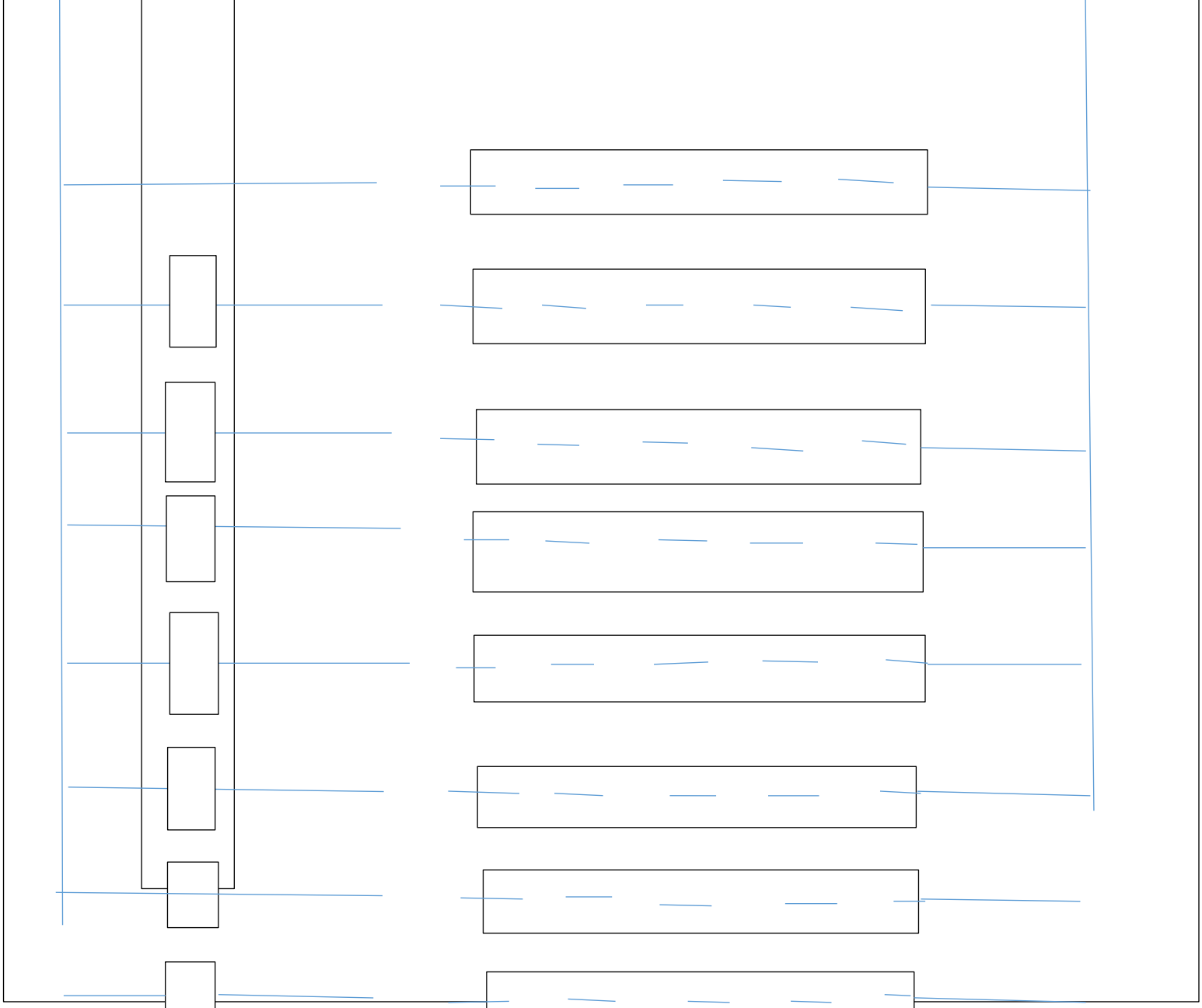

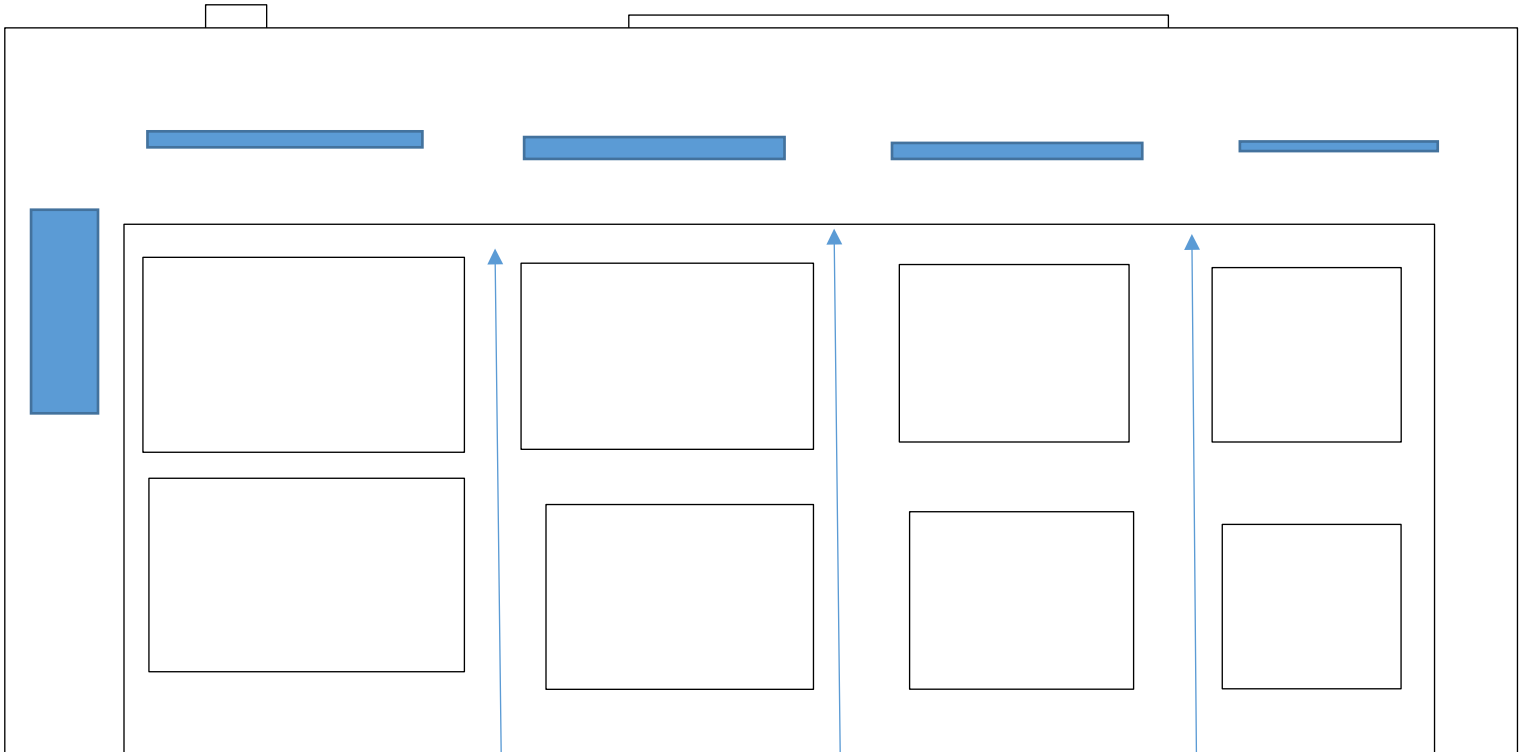

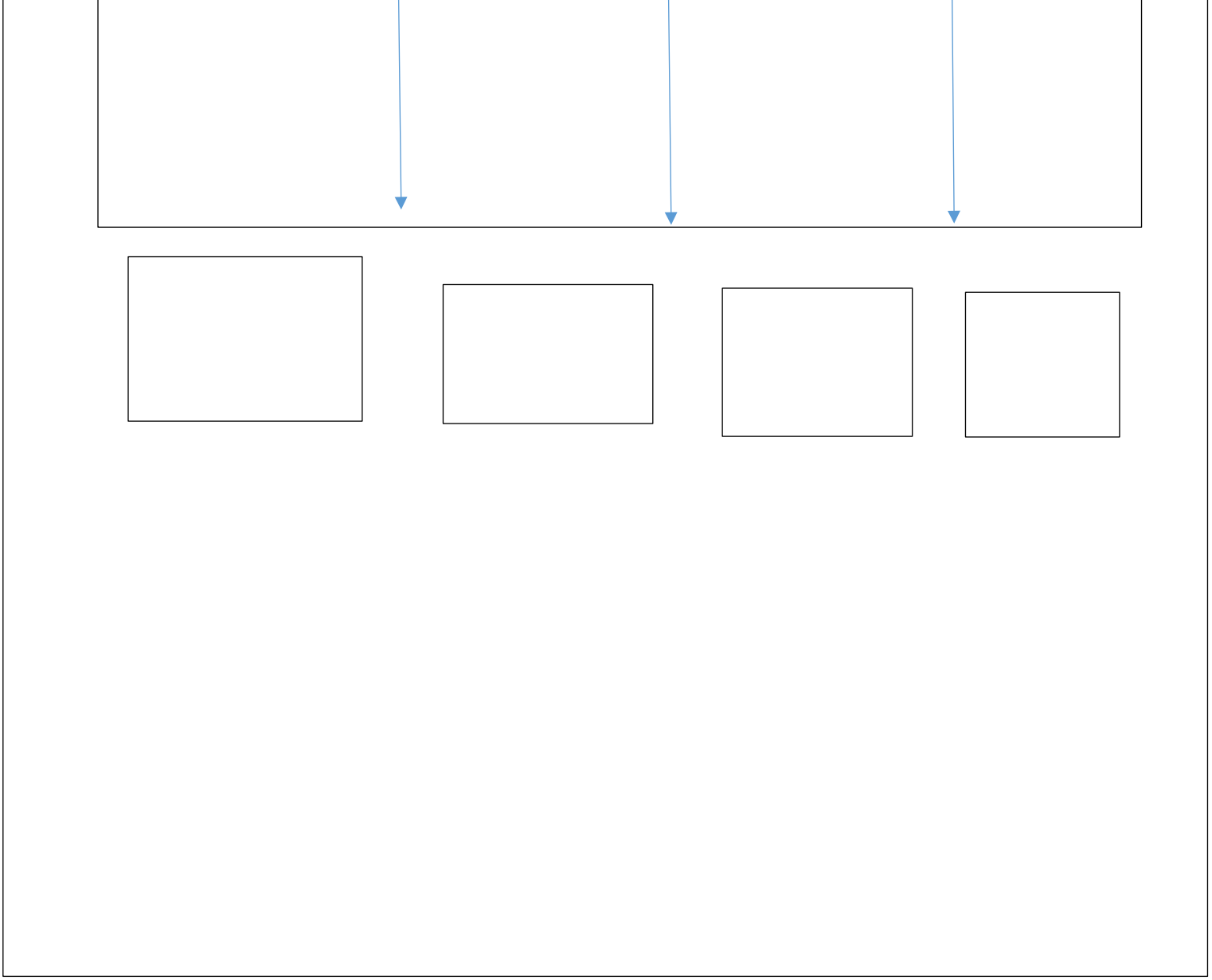

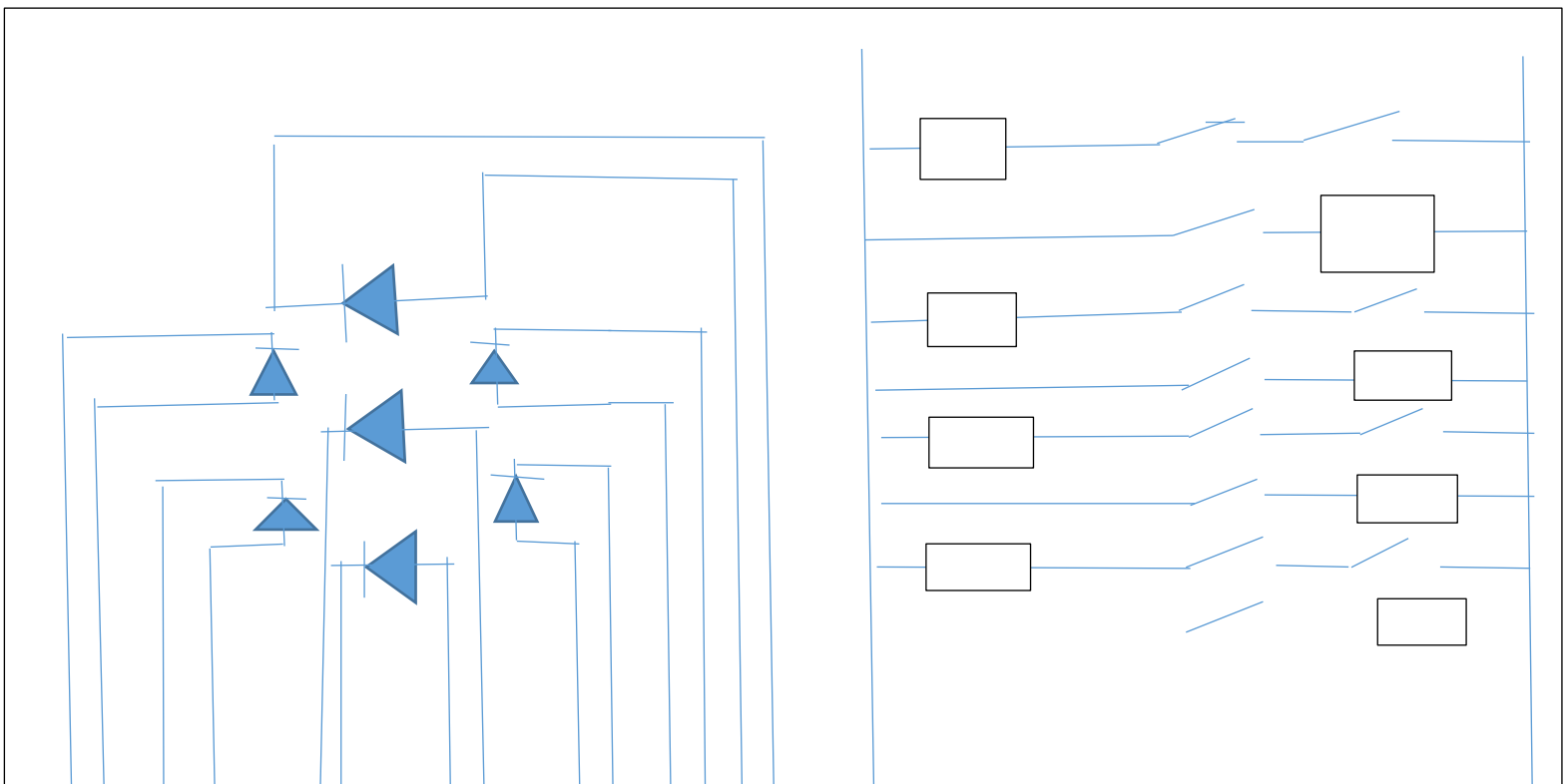

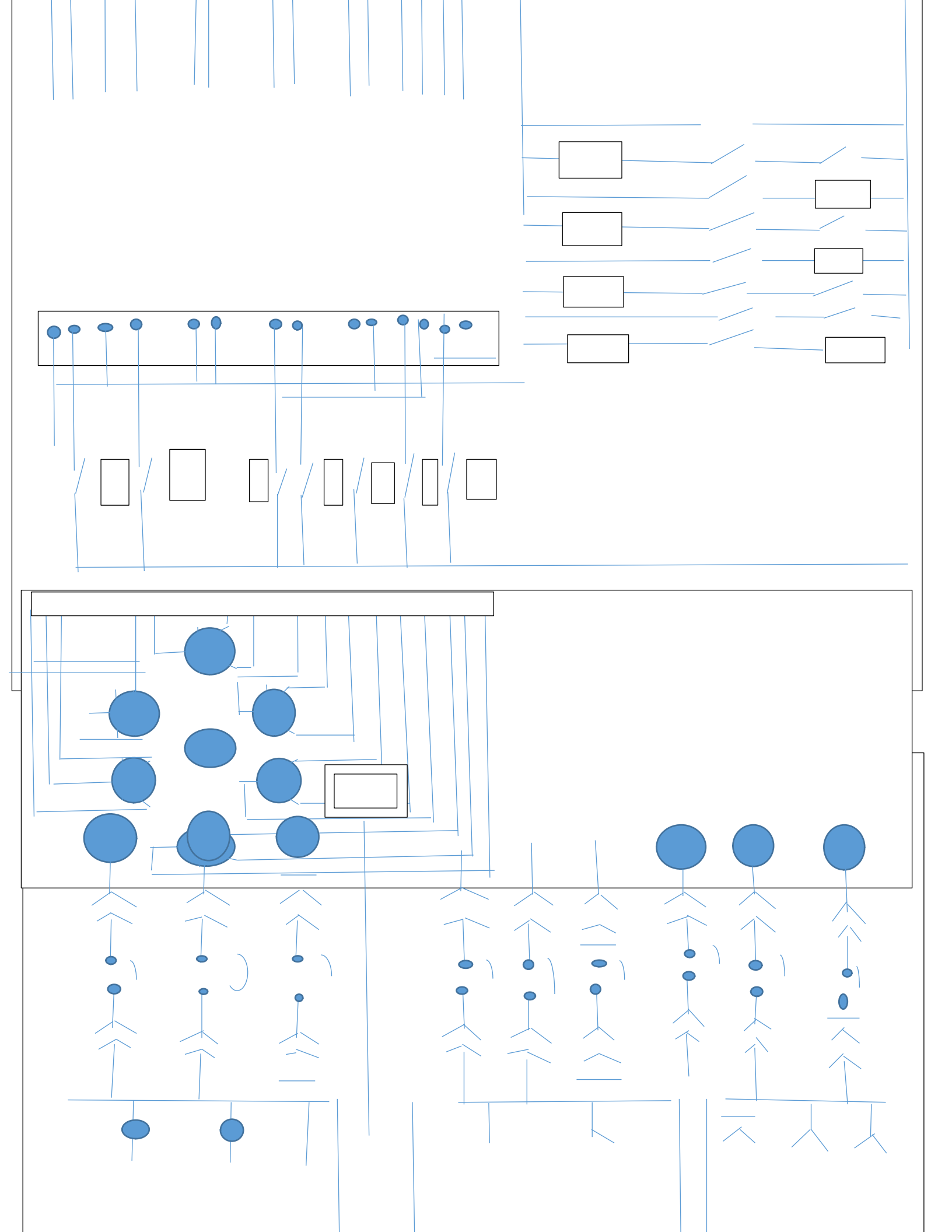

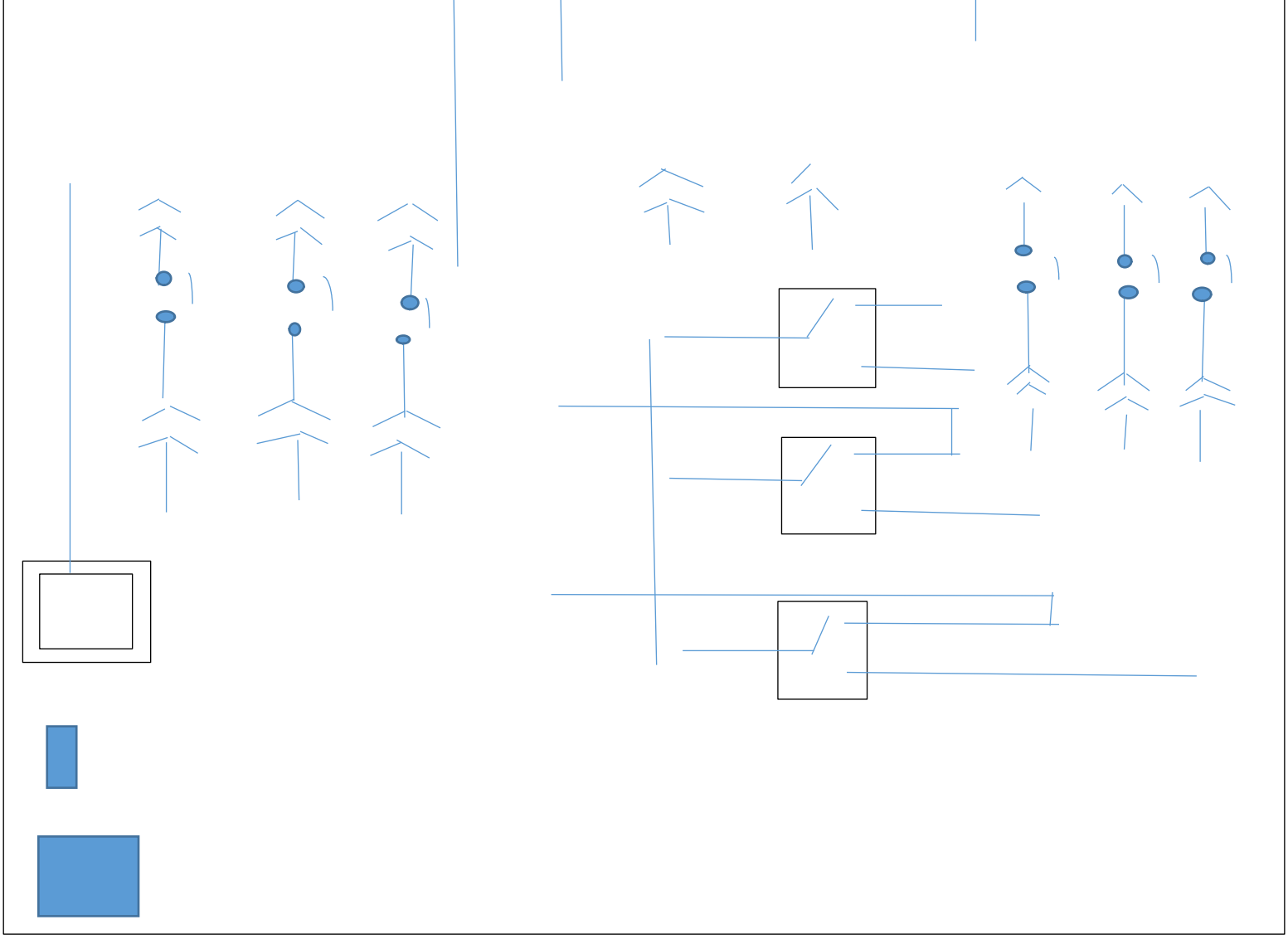

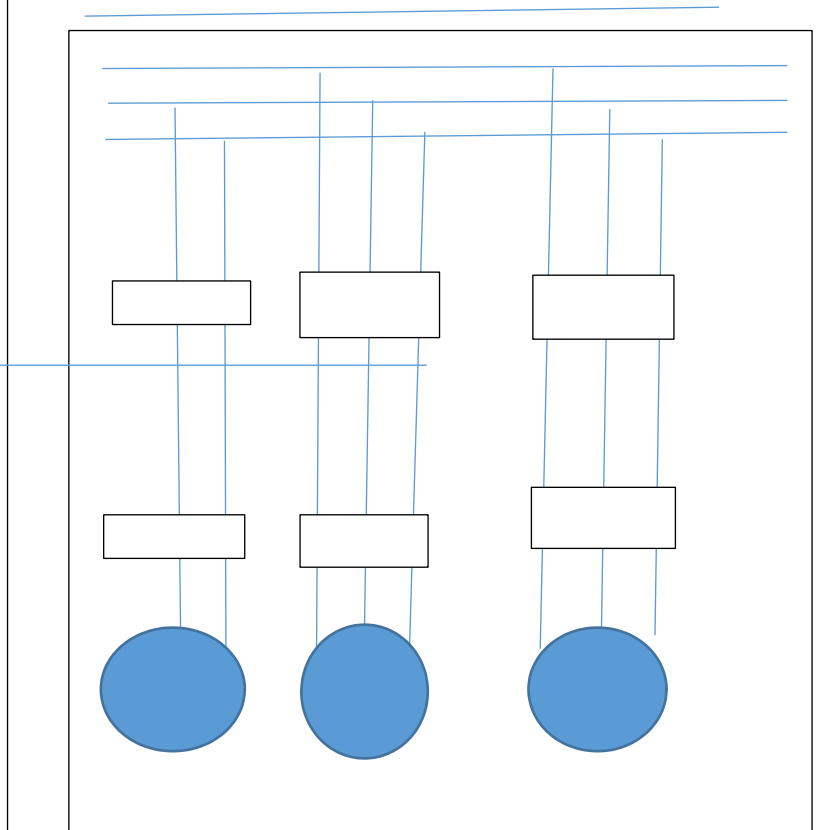

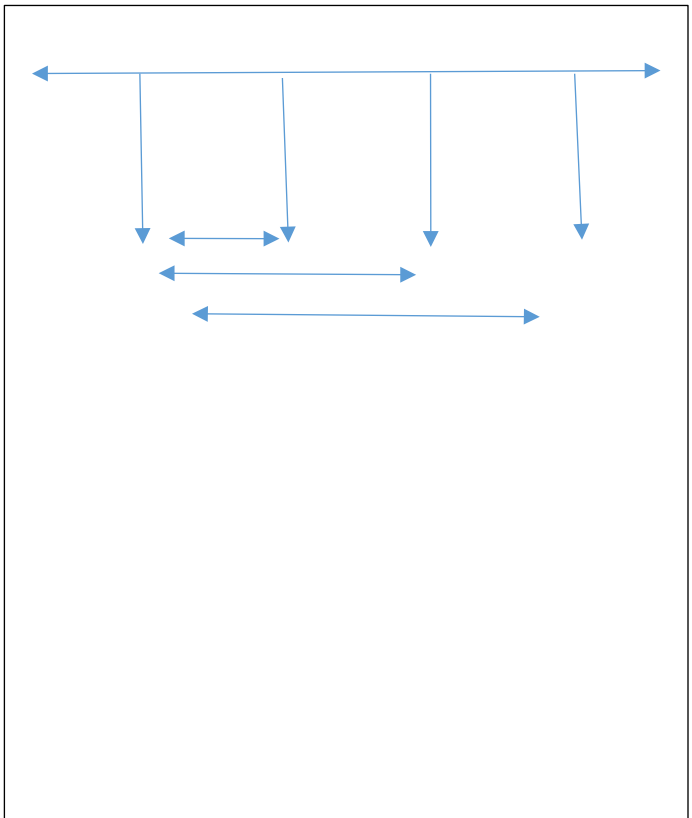

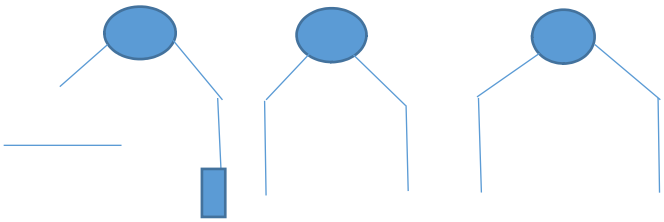

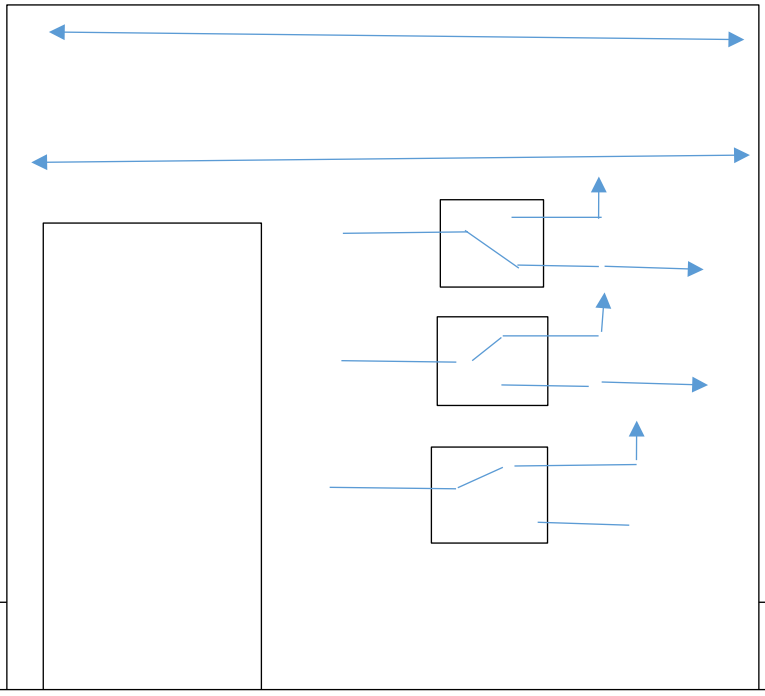

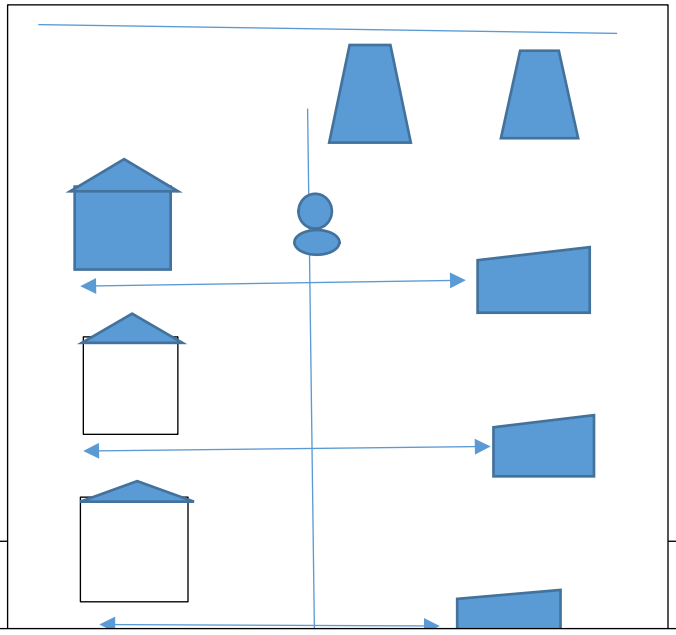

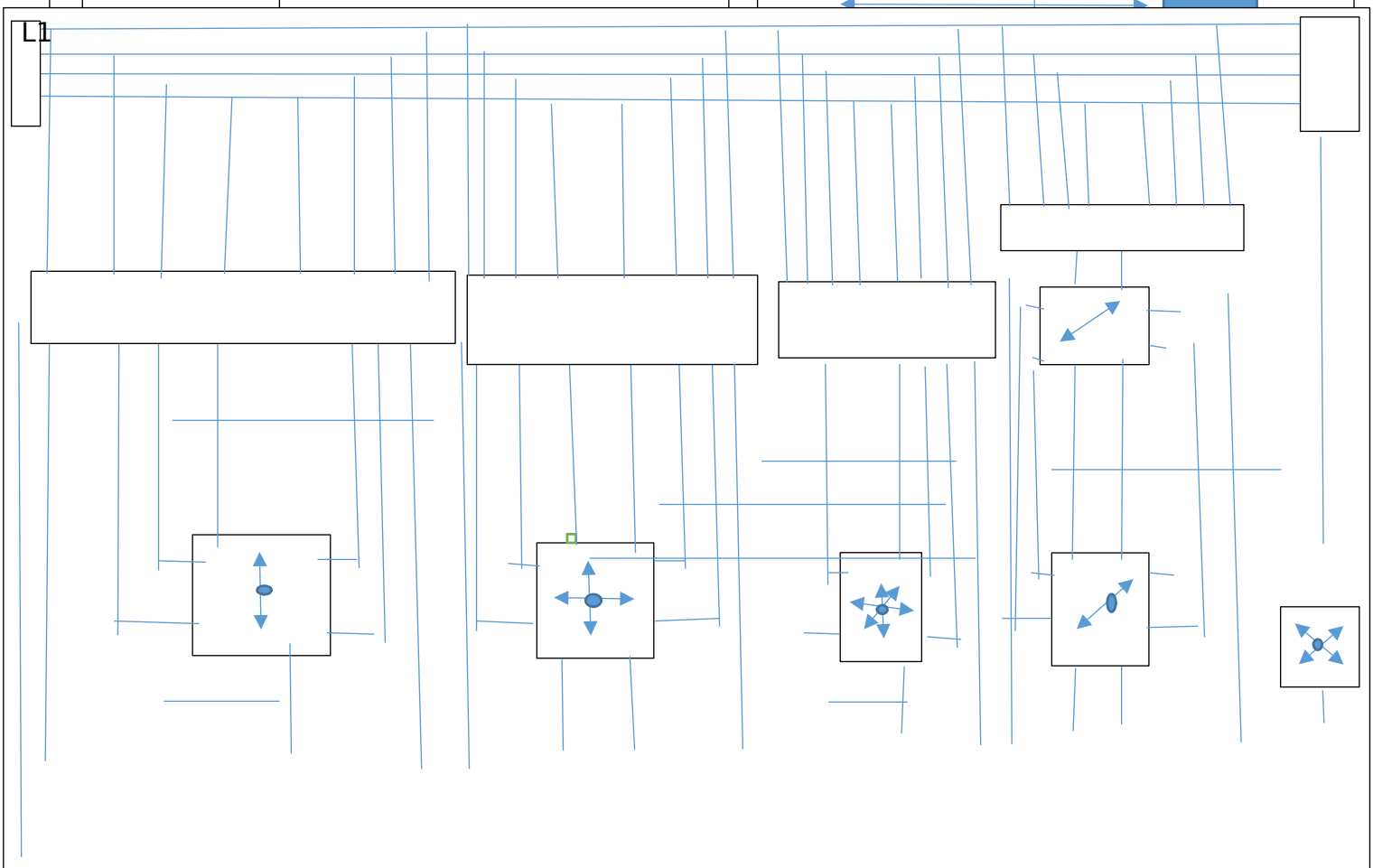
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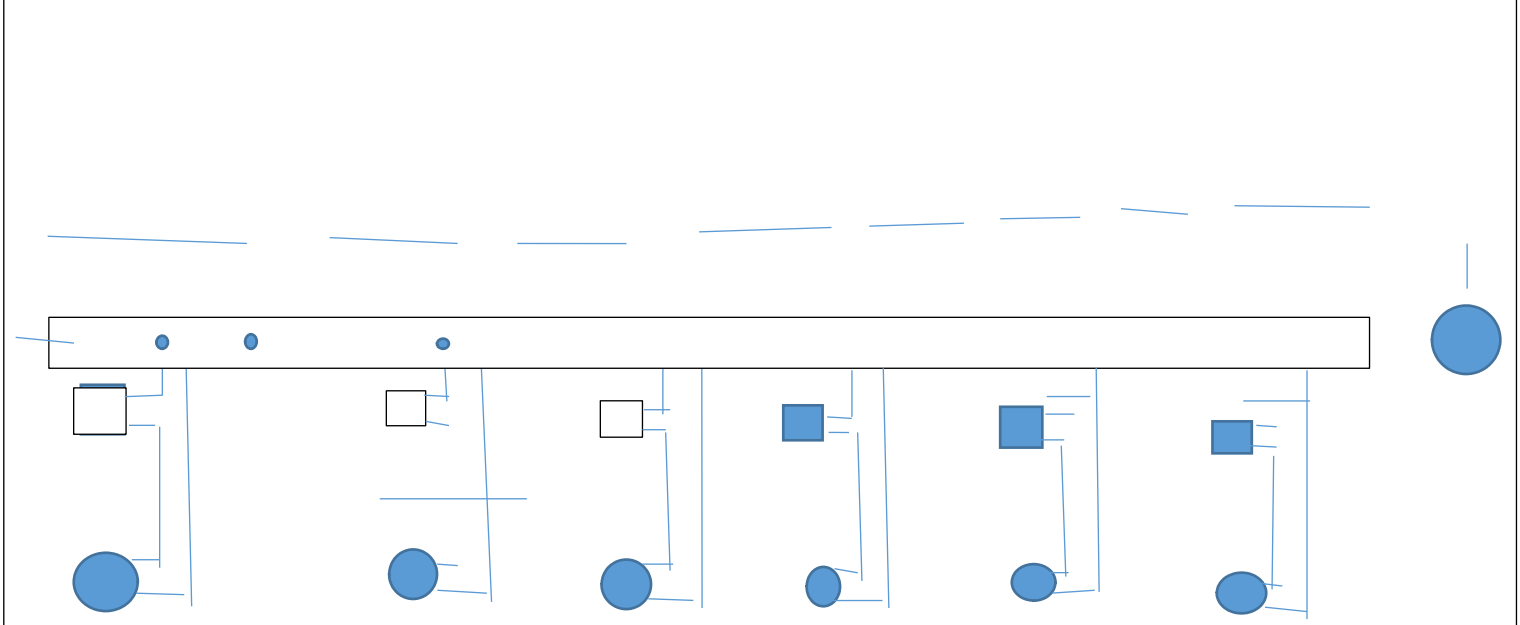

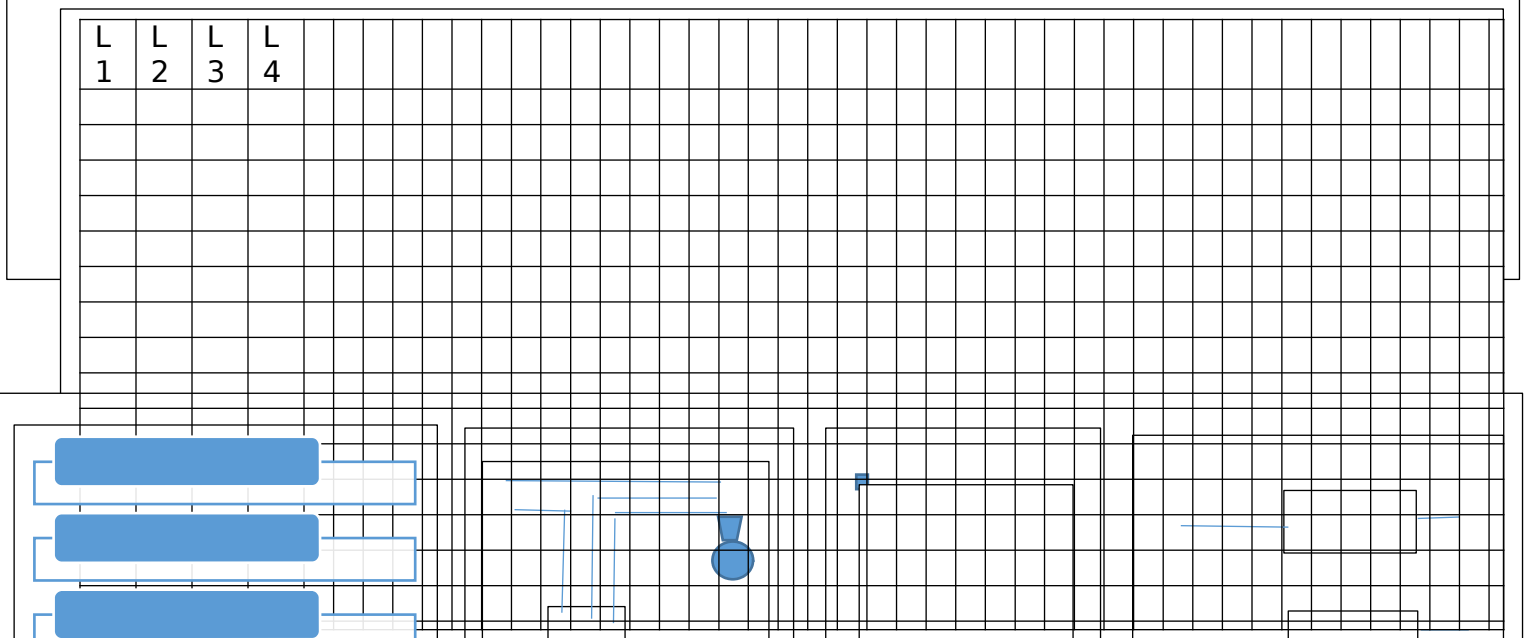
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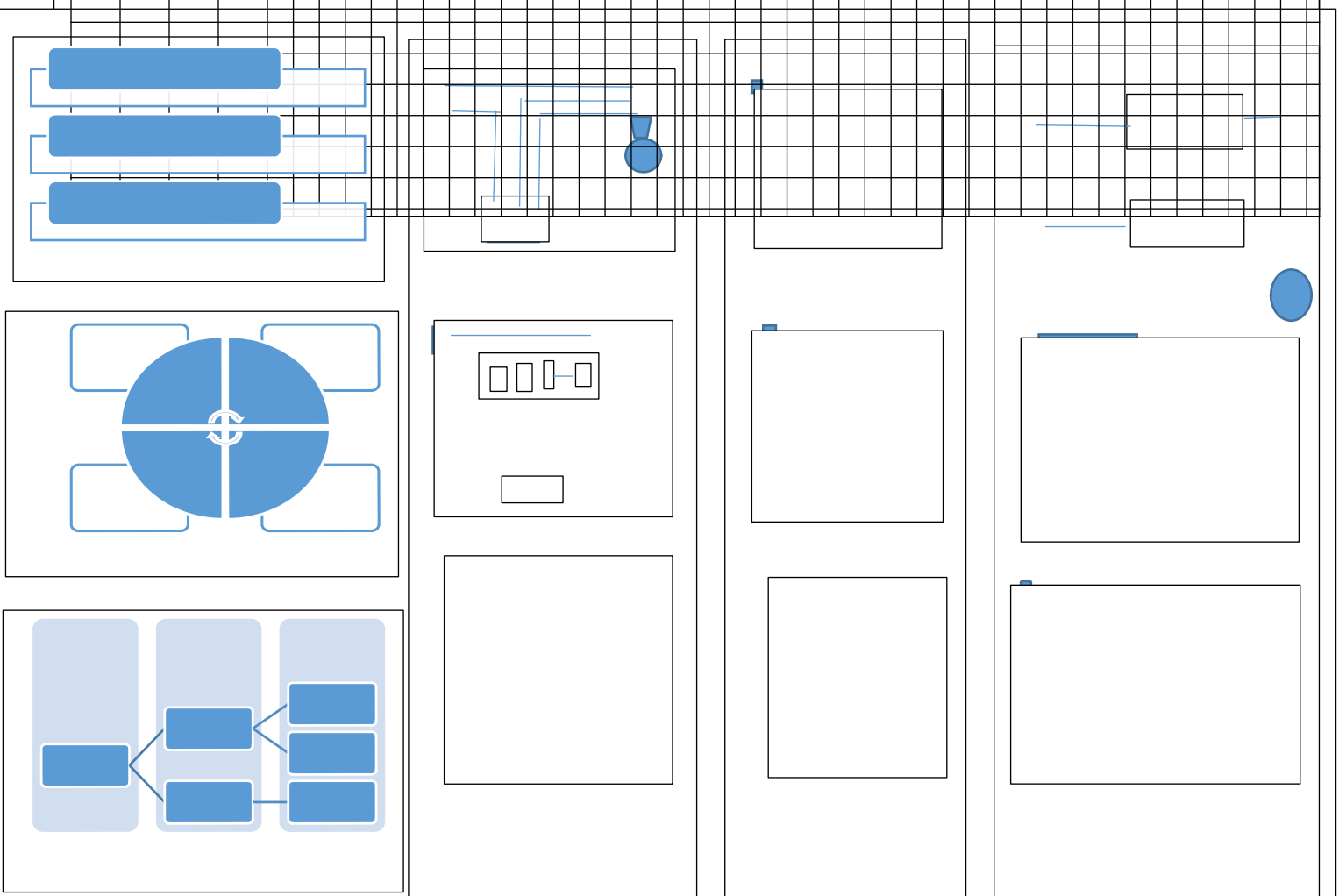

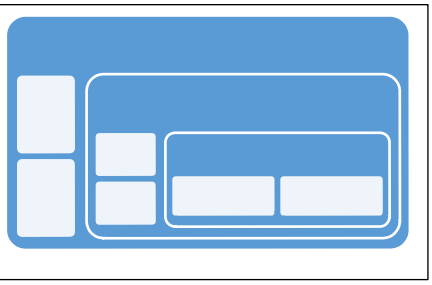

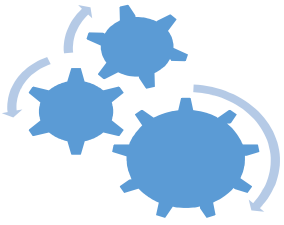

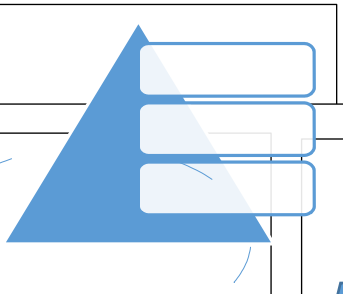

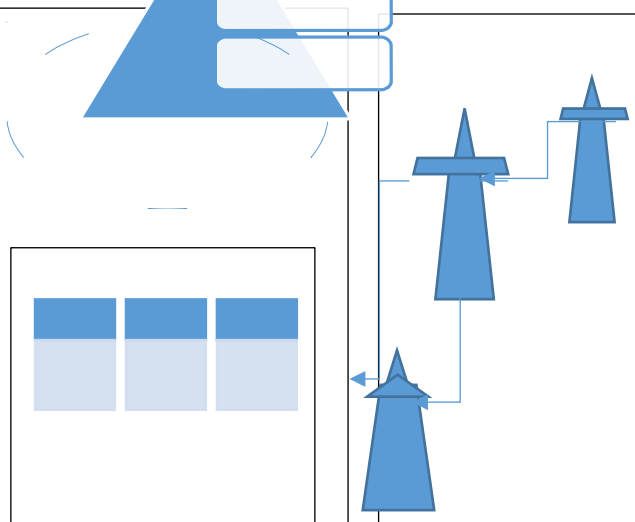

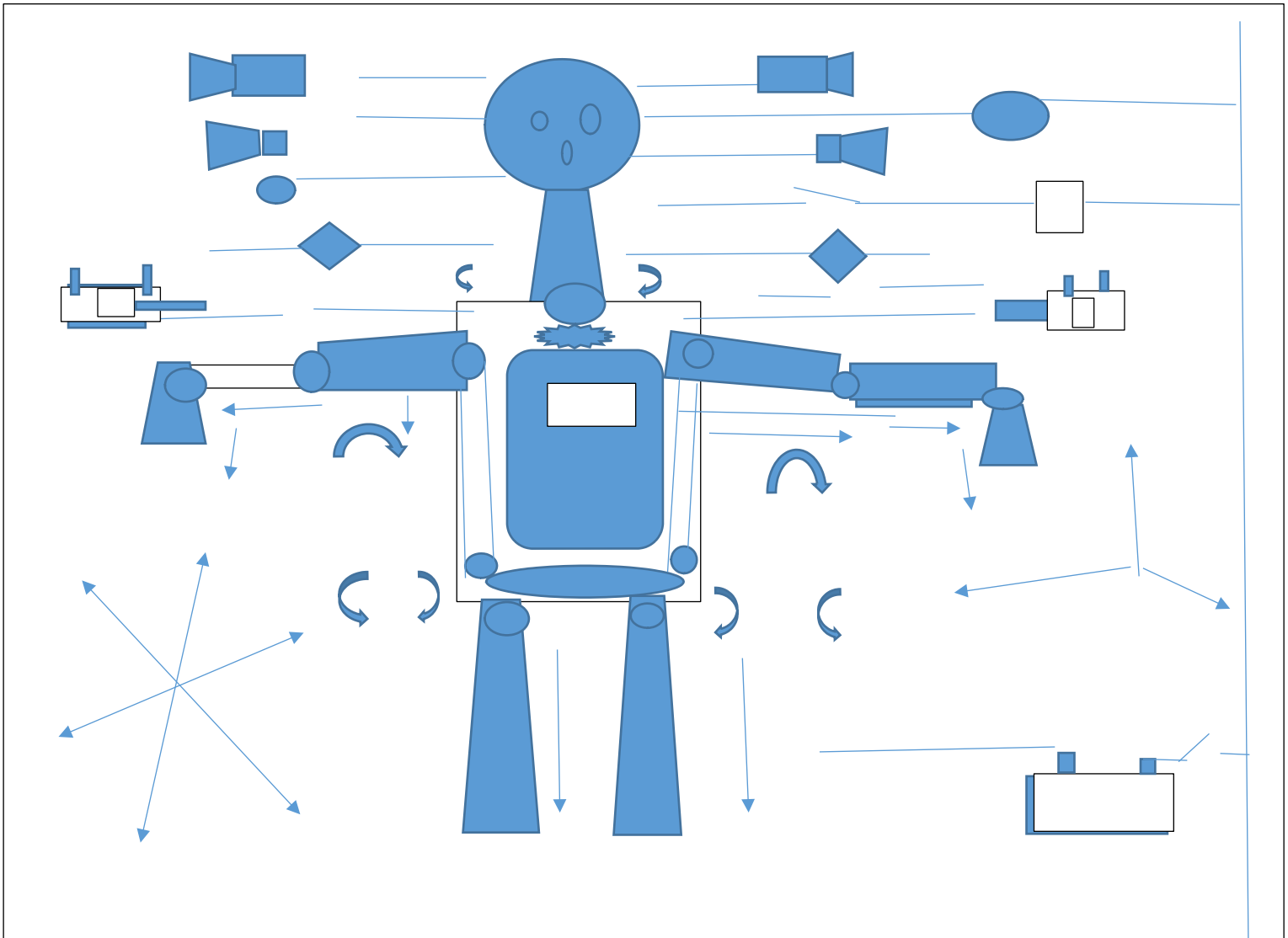

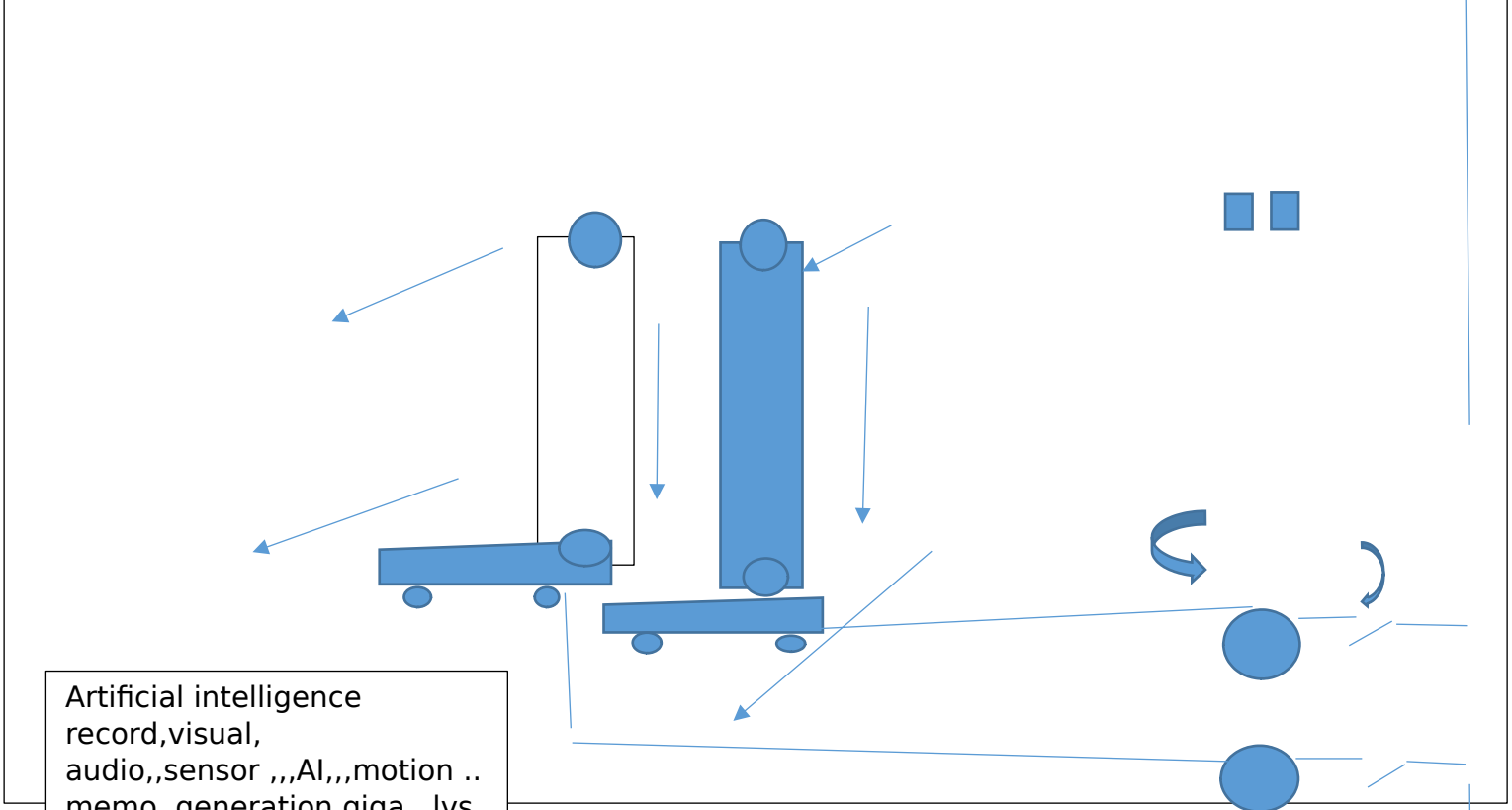

Artificial intelligence
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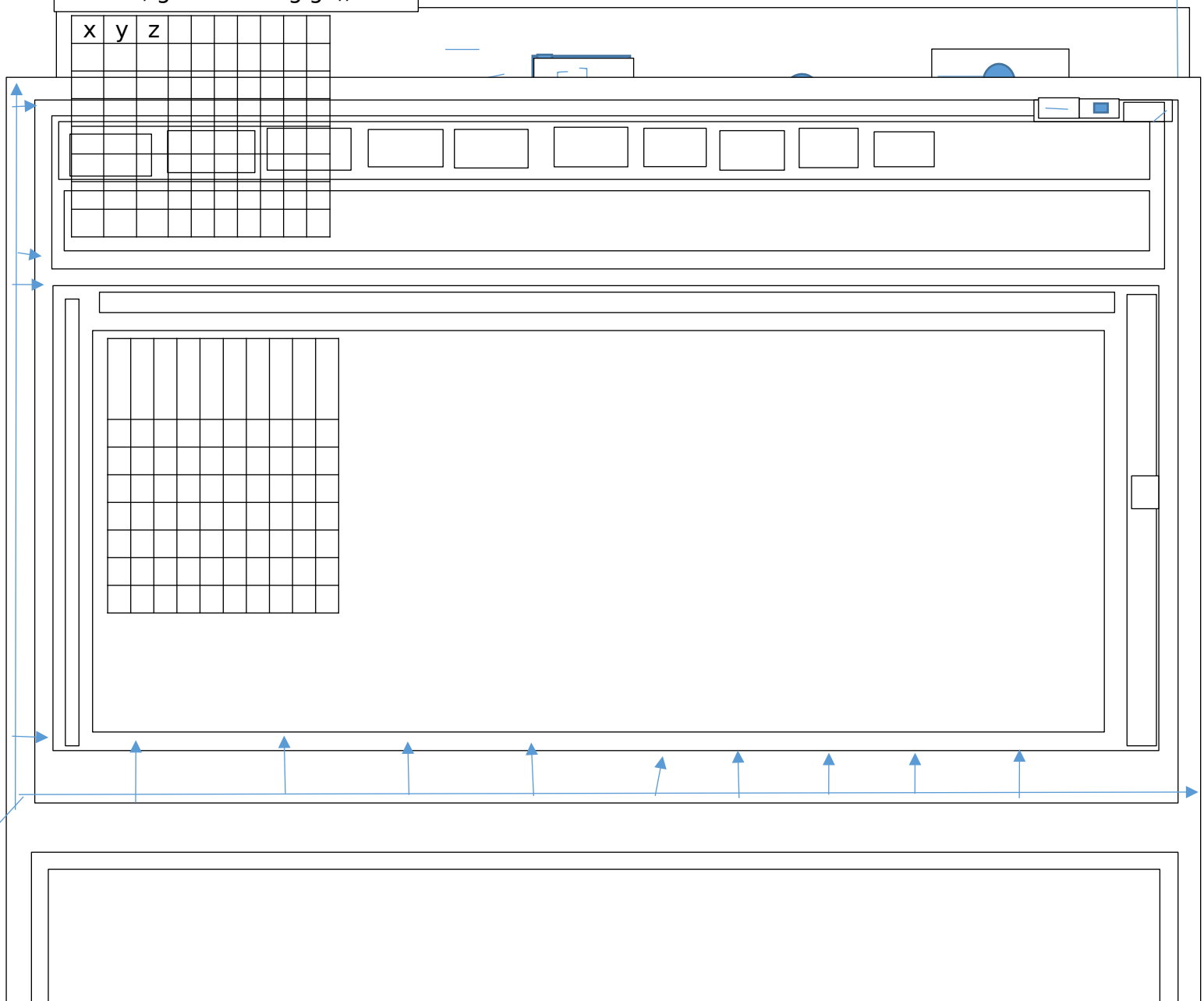
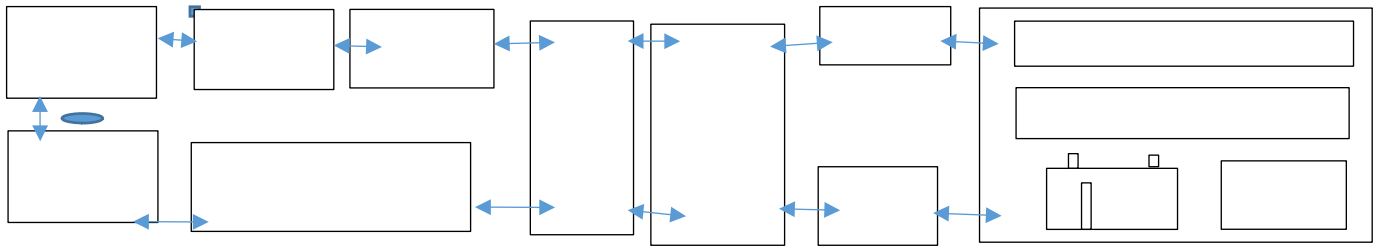
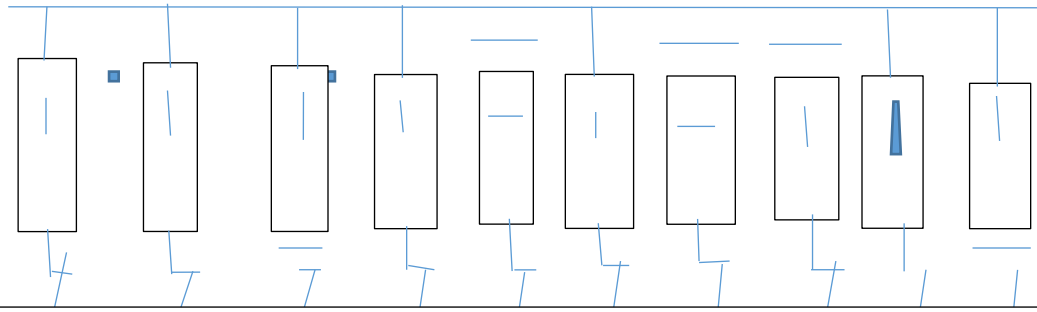
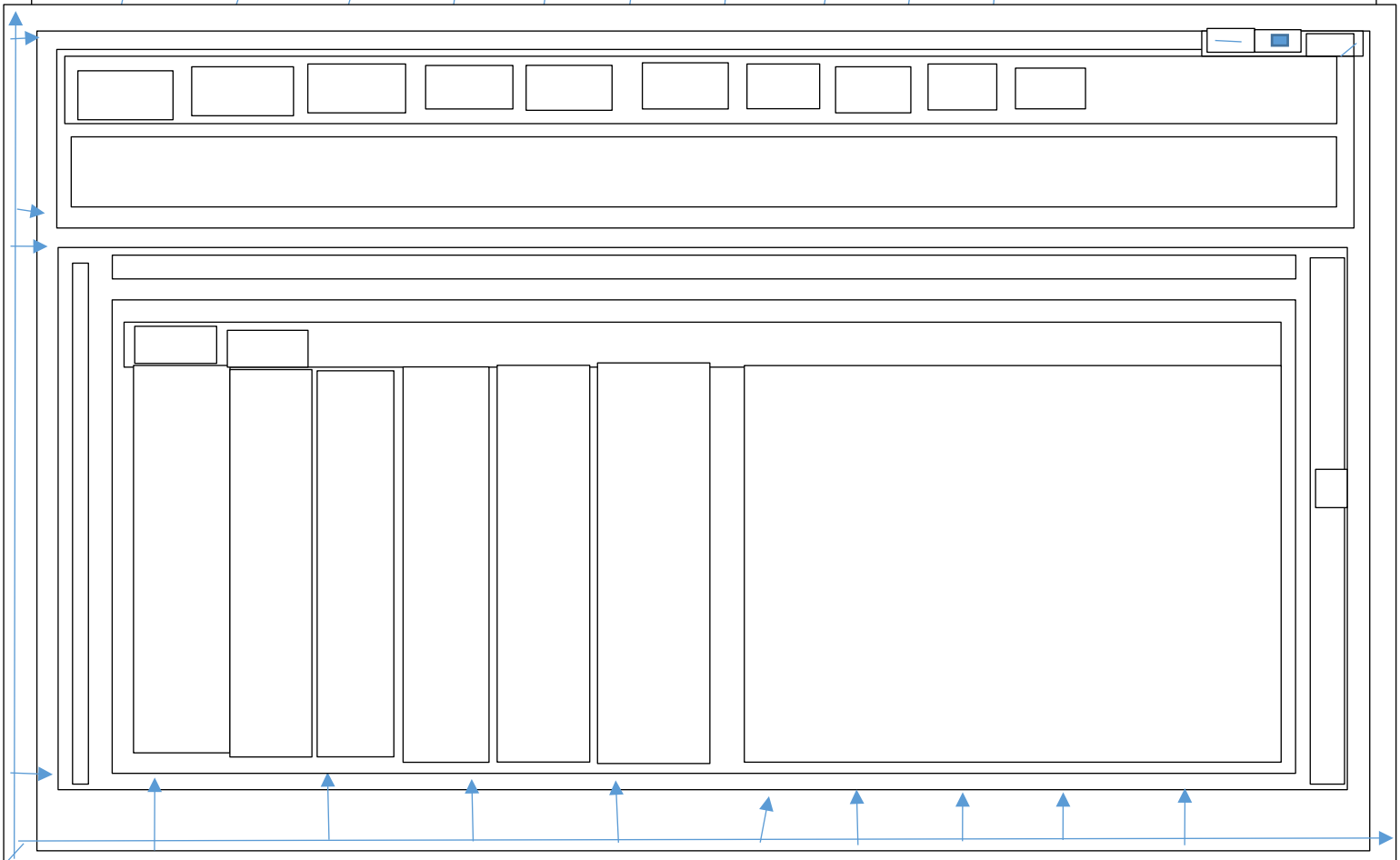
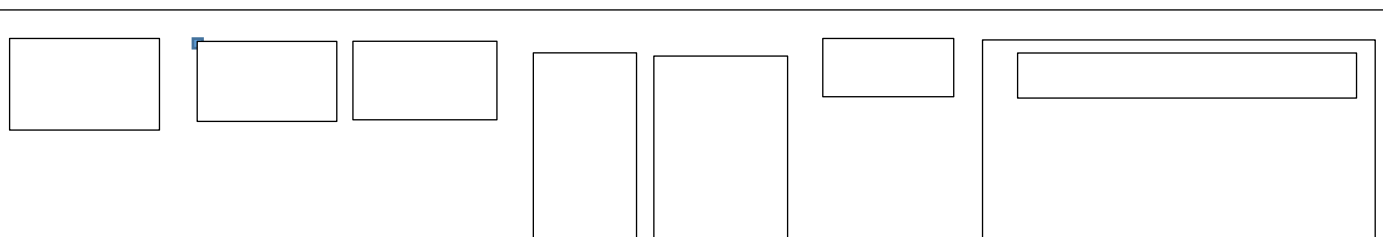
audio,,sensor ,,,AI,,,motion ..
memo, generation giga,, lvs

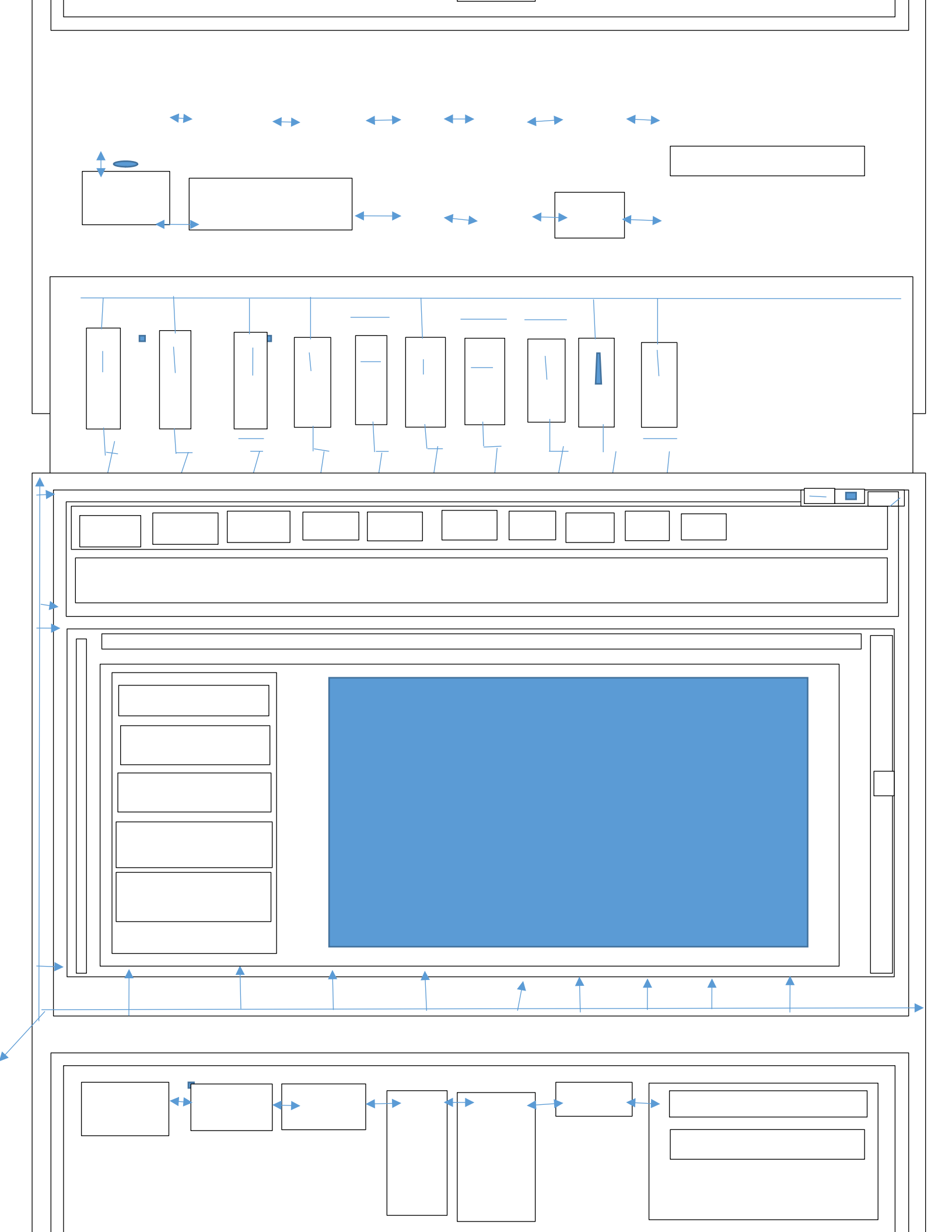


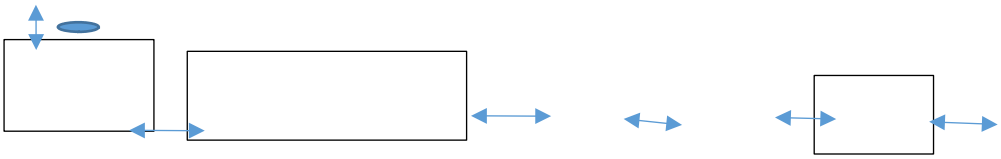


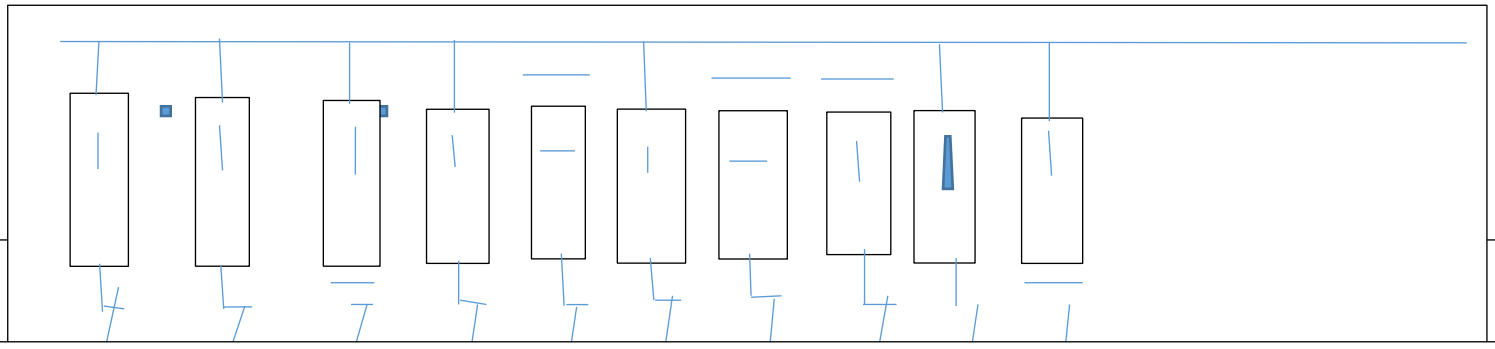


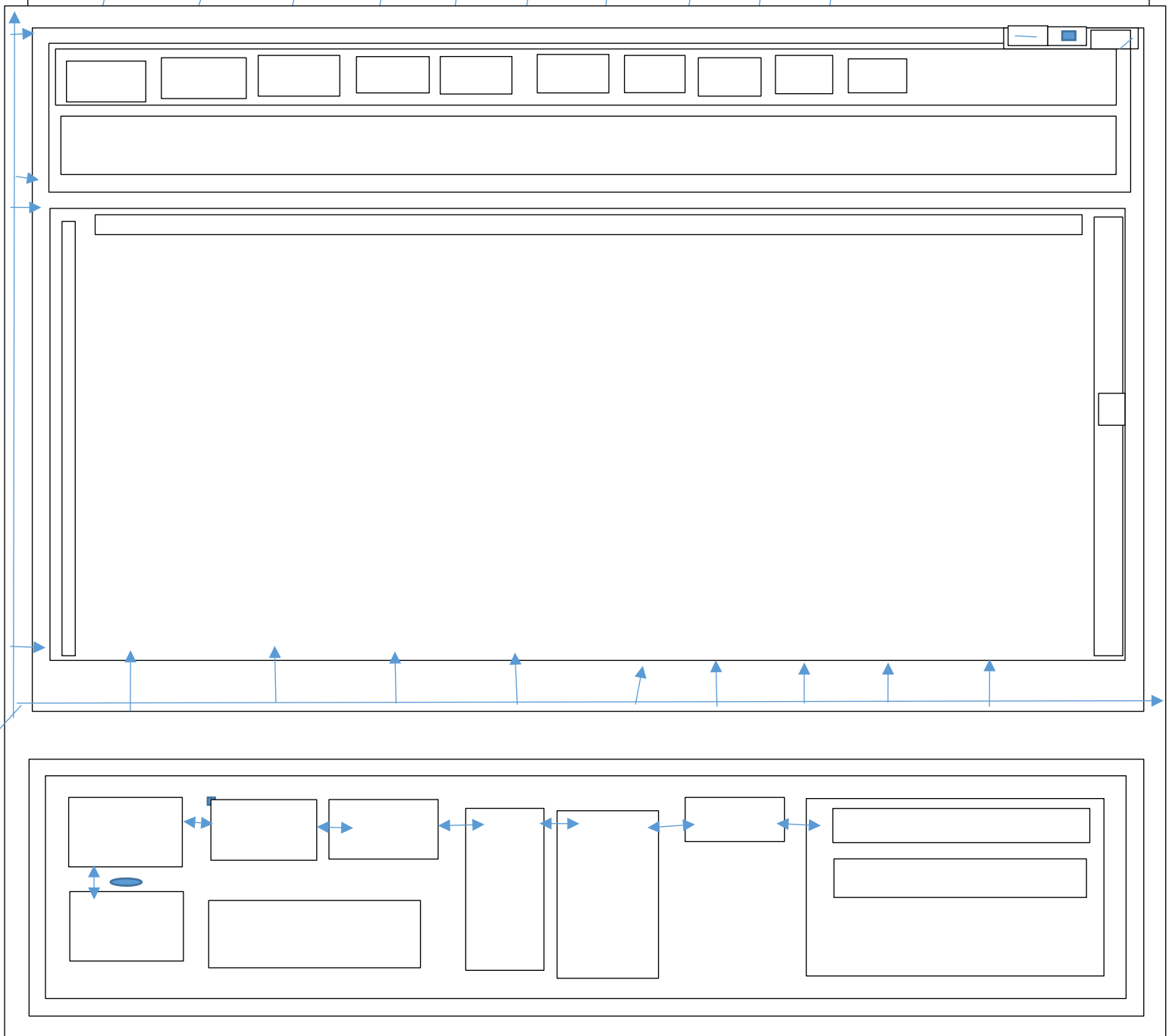


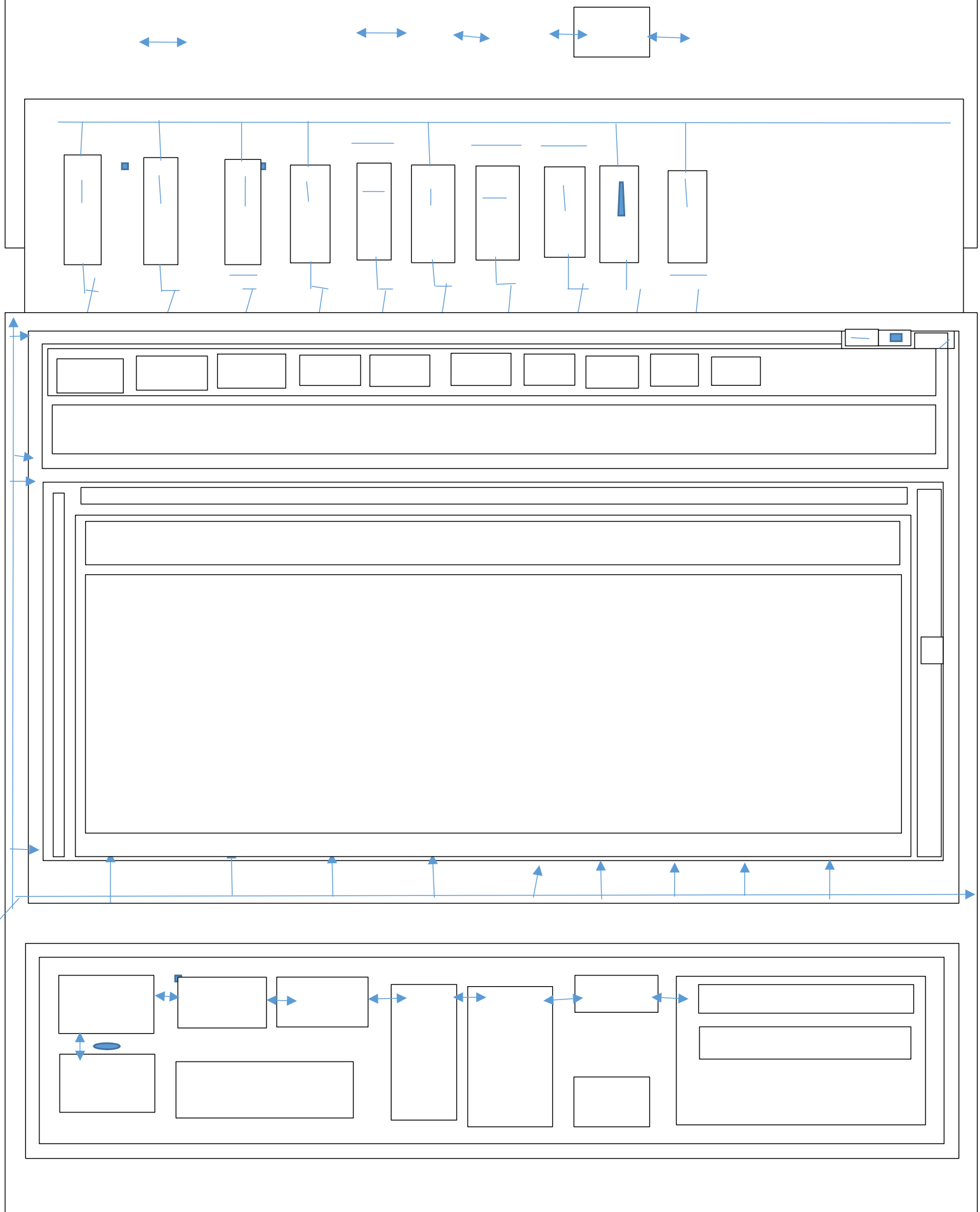


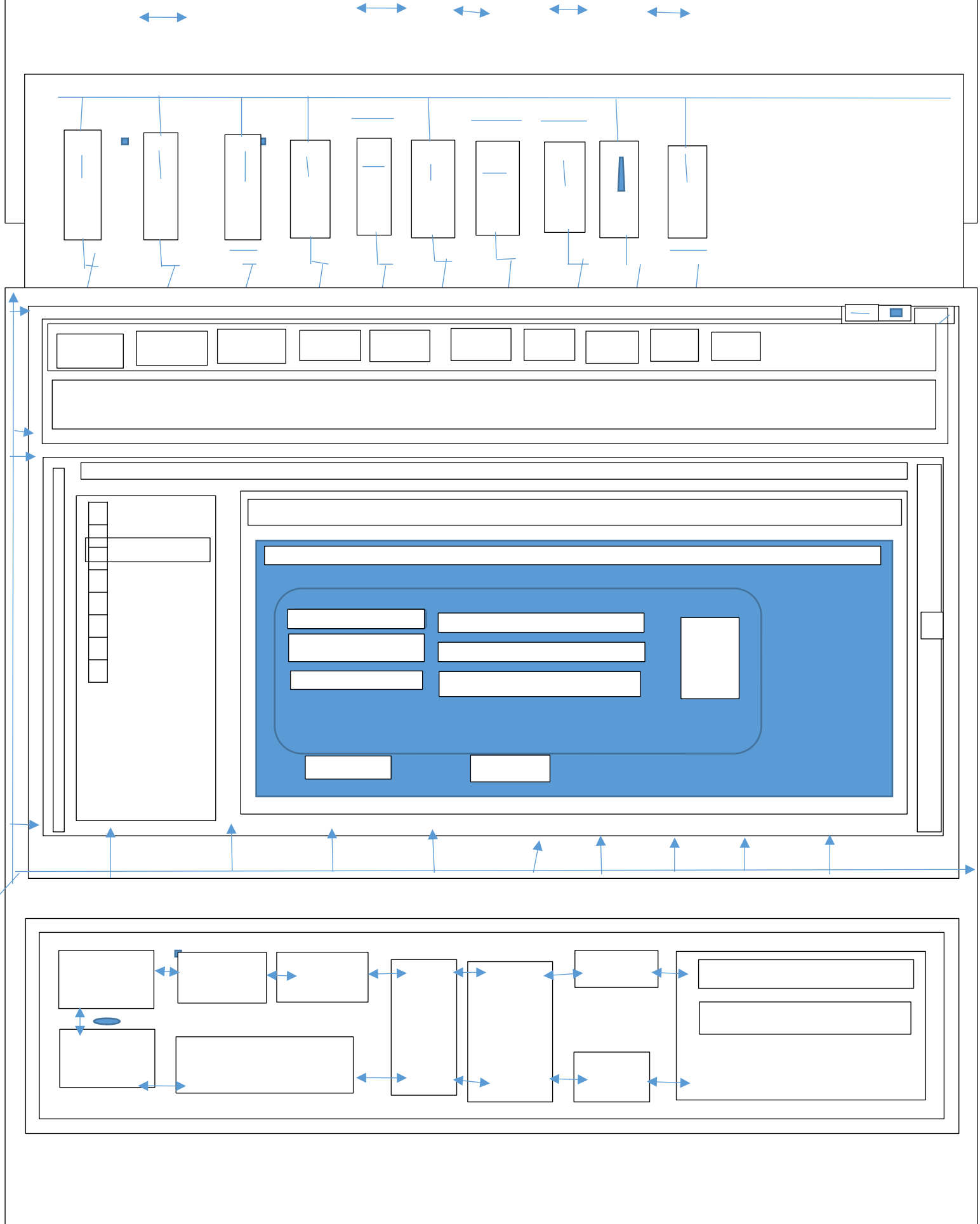


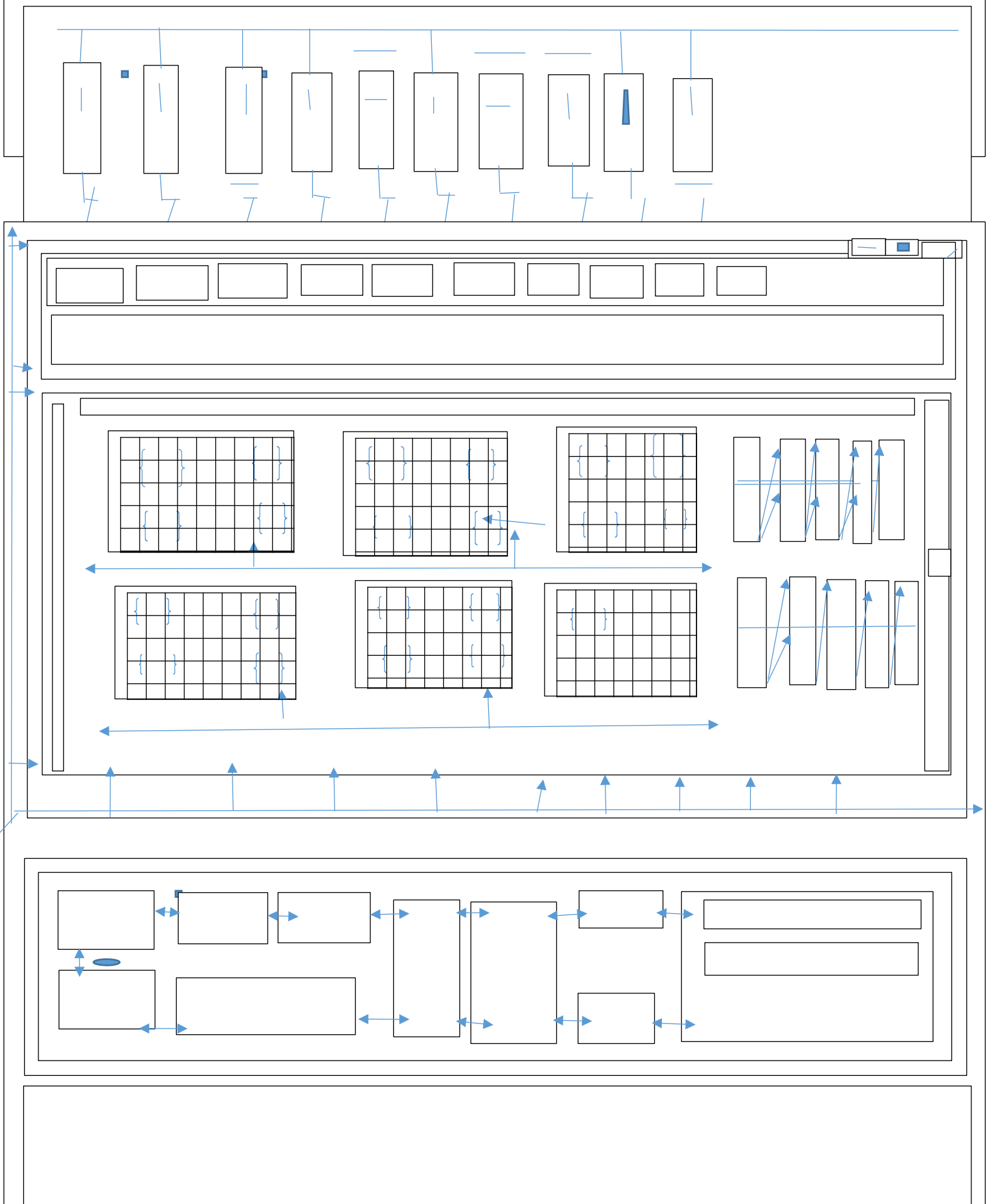


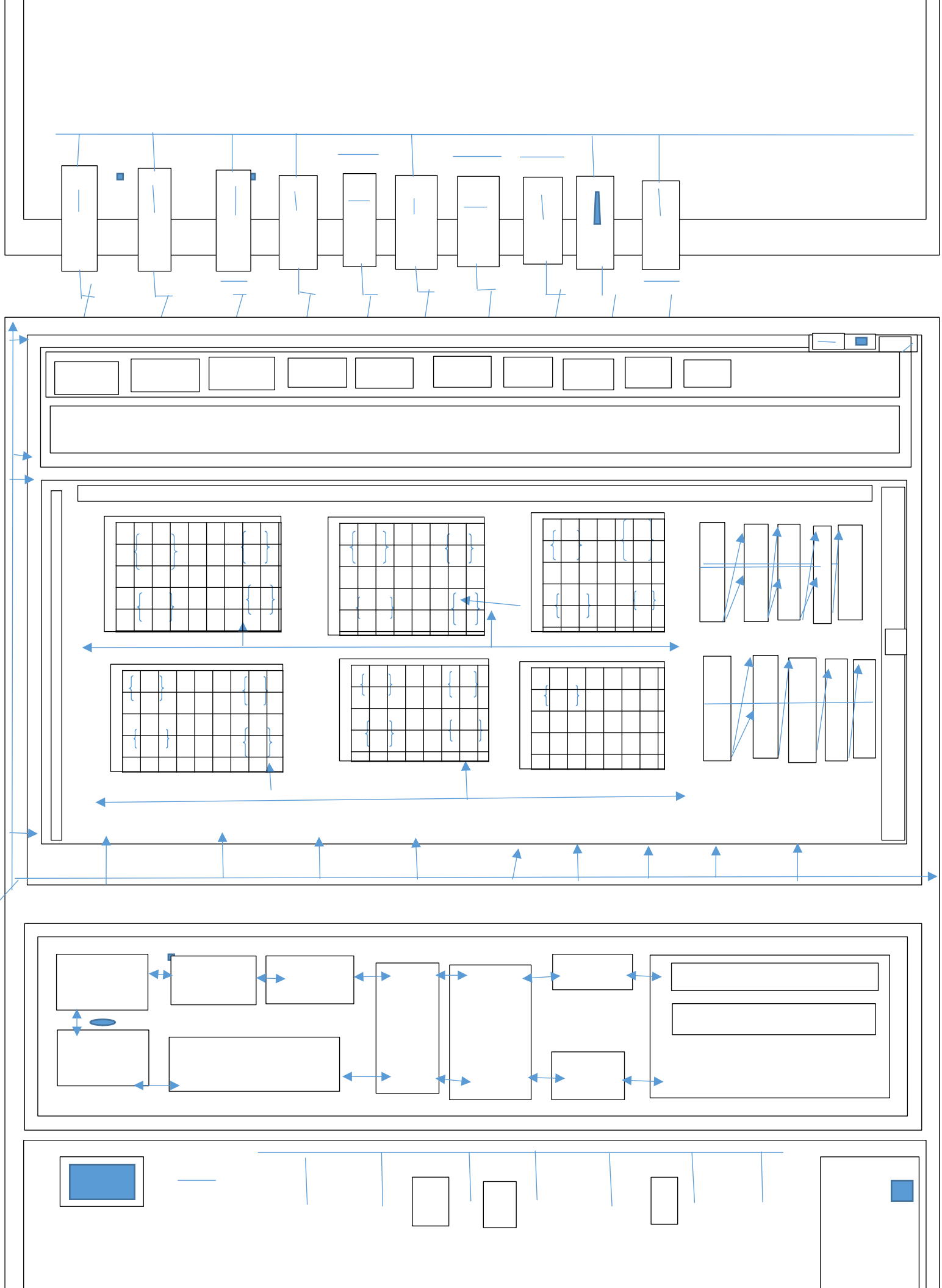


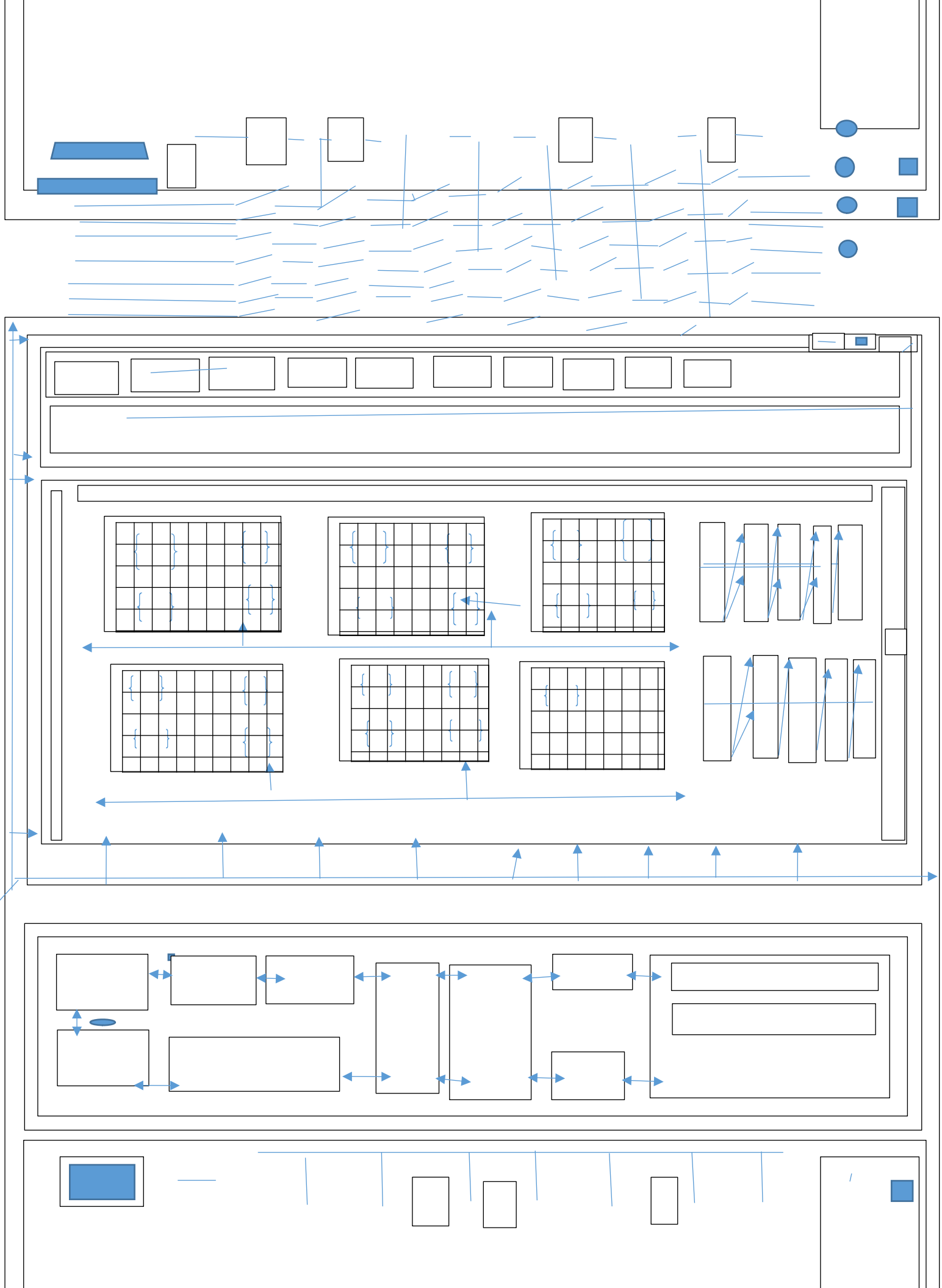


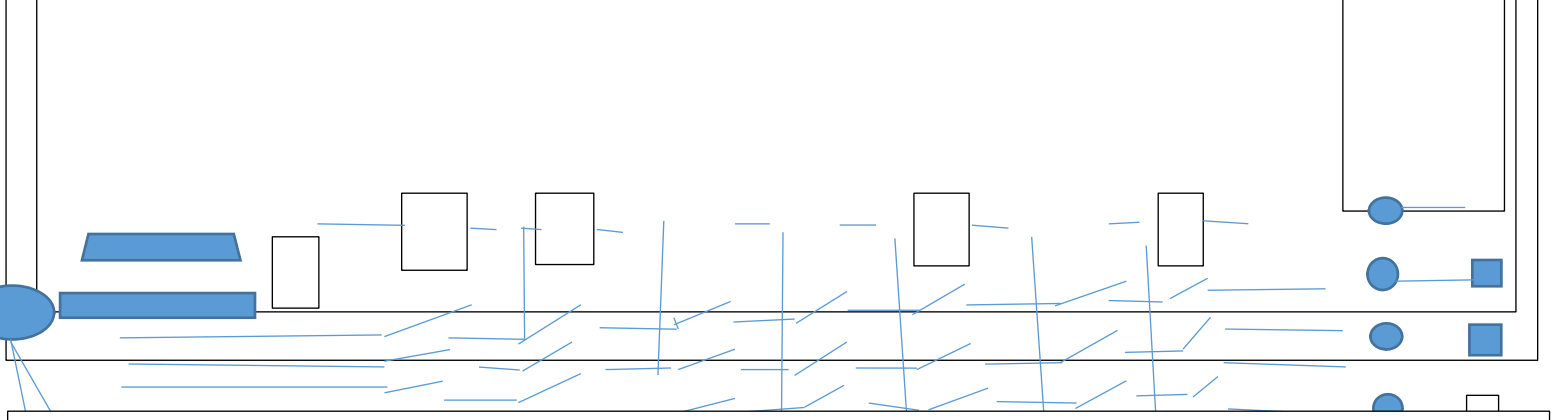


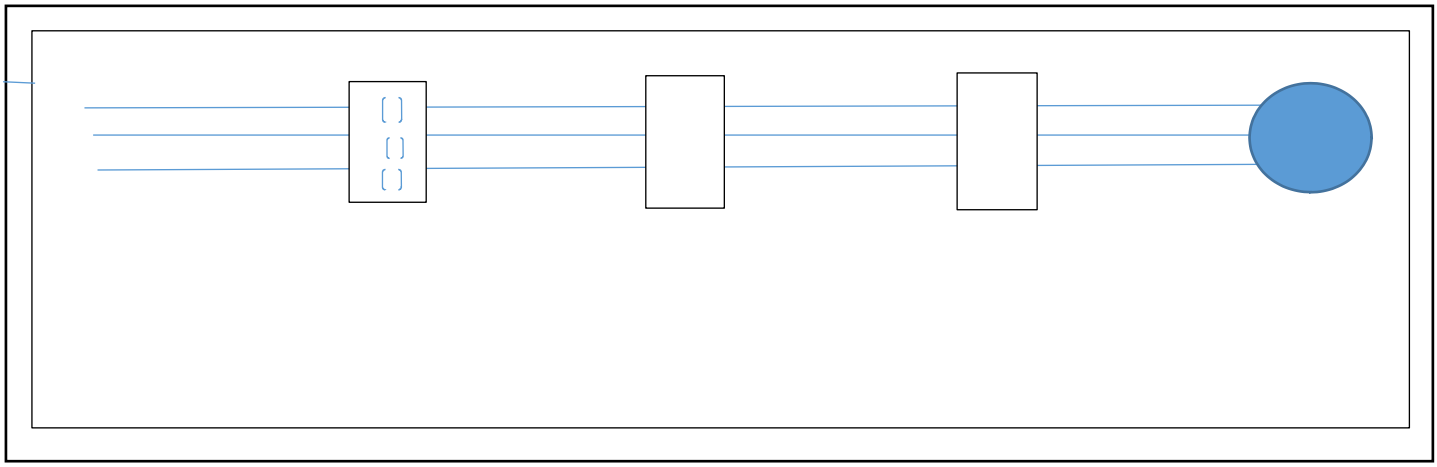


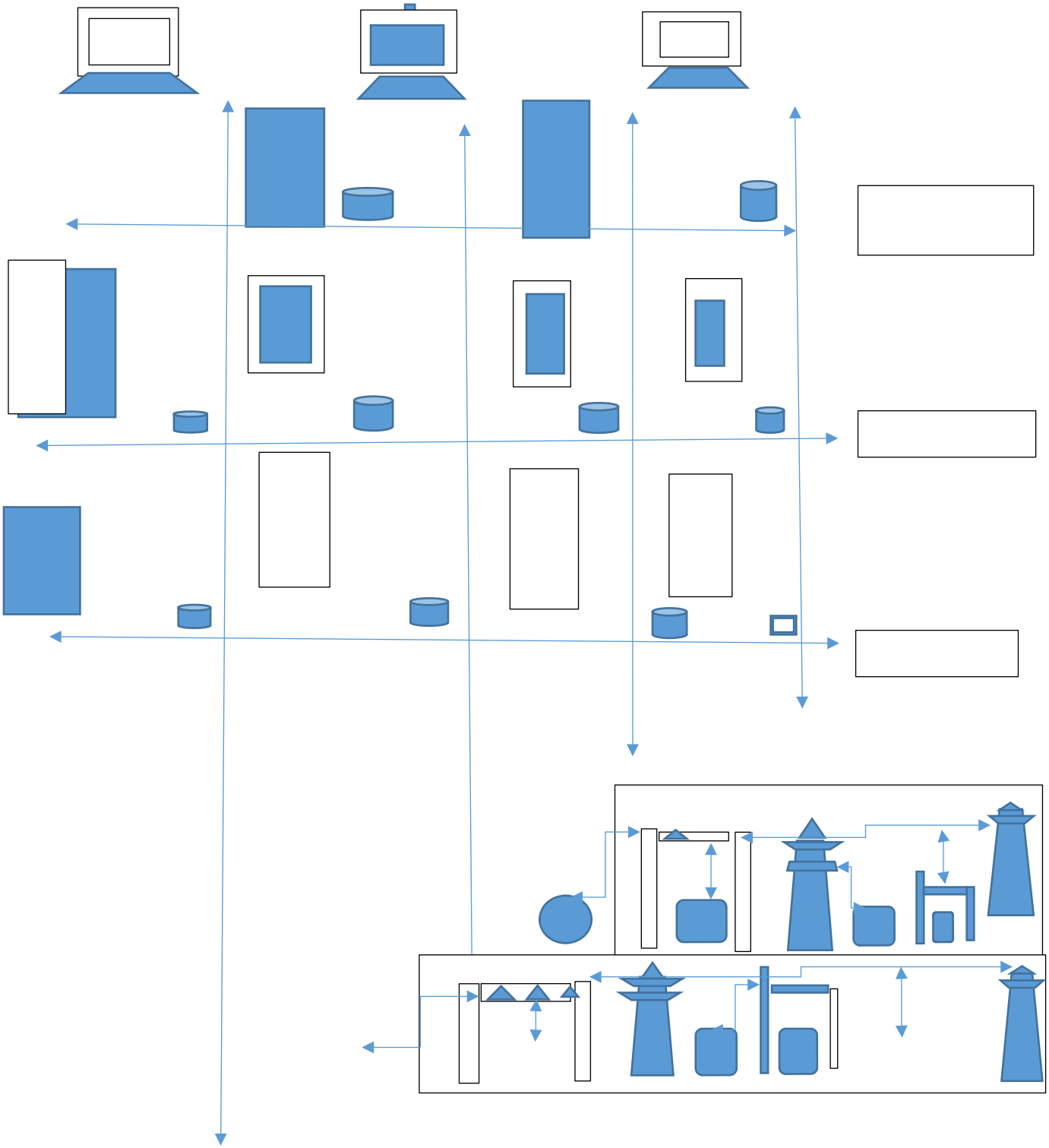


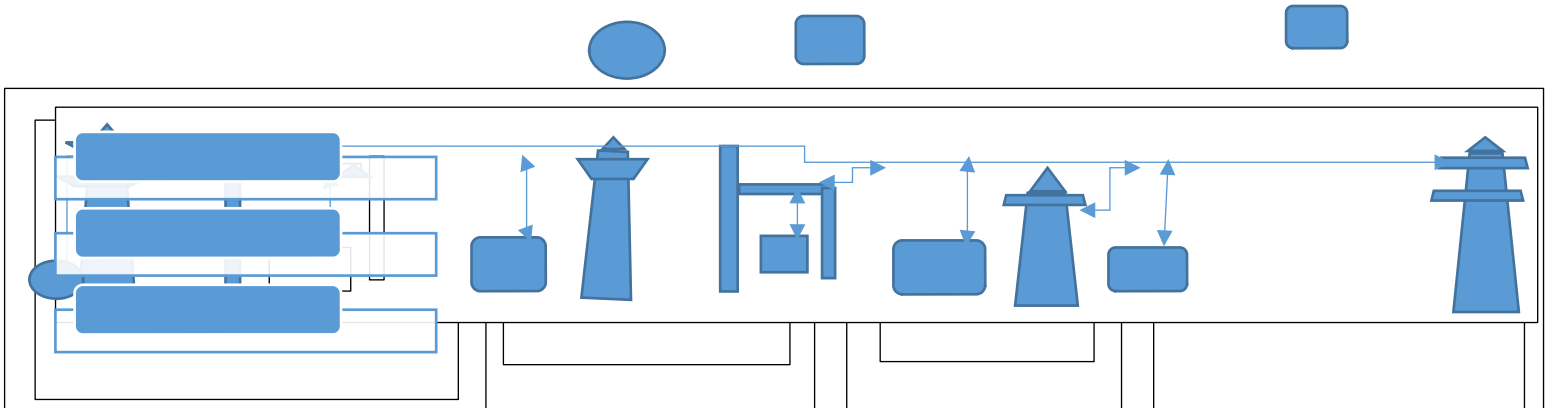


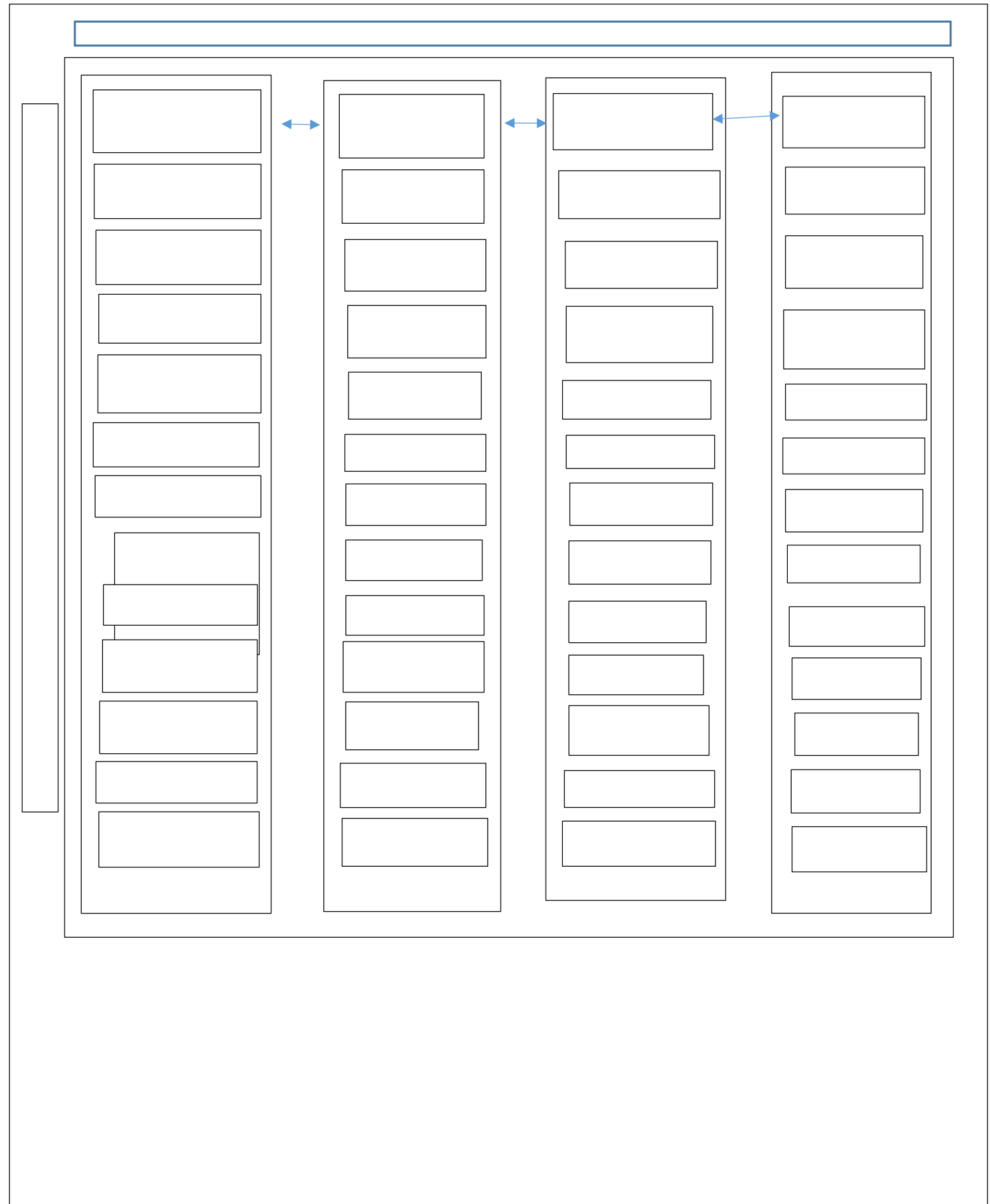












Configuration Name : My Configuration
Configuration ID : 4130bce9-de32-43a8-9b26-428cf8cdb602
Date : Wed Mar 05 08:20:59 UTC 2025

Bom Level	No.	Reference	Descr
Controller + I/O	1	LMC100CAA10000	Motio
Controller + I/O	2	ABL8WPS24200	Regul phase
Controller + I/O	3	ABL8BBU24200	batter DC, p
Controller + I/O	4	ABL8BBU24400	batter DC, p
Controller + I/O	5	ABL8RED24400	redun SMPS

Controller + I/O	6	ABL8PRP24100	electr 28.8V chanr
Controller + I/O	7	ABL8BUF24400	buffer power

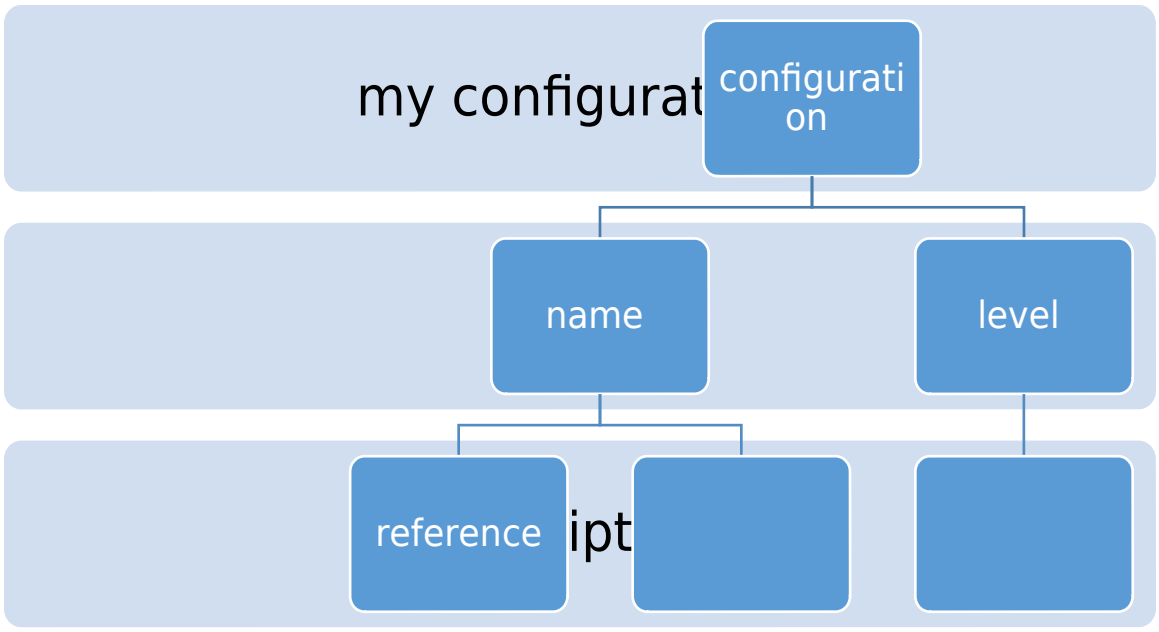
Description
Motion controller LMC100 0 axis - Acc kit - Basic
Regulated switch power supply, modicon power supply, 3 phases, 380 to 500V AC, 24V, 20A
battery control module, phaseo ABL7 ABL8, 24 to 28.8V DC, phaseo ABL7 ABL8, 24V, 20A, for regulated SMPS
battery control module, phaseo ABL7 ABL8, 24 to 28.8V DC, phaseo ABL7 ABL8, 24V, 40A, for regulated SMPS
redundancy module, phaseo ABL7 ABL8, 40A, for regulated SMPS
electronic protection module, phaseo ABL7 ABL8, 28 to 28.8V DC, 10A, for regulated SMPS, 2 pole breaking by channel
buffer module, phaseo ABL7 ABL8, 24 to 28.8V DC, 40A, for power supply

Configuration Name:	My Configuration
Configuration ID	49c77cc5-cae3-4f83-97c8-ebd0fe2c2c3c
Date:	Wed Mar 05 08:10:24 UTC 2025

Main product	Part Number	Accessories	Accessories - Part Number	Short description
Breaker	C63H31M5			Circuit breaker, ComP

	00			70kA/415VAC, 3 poles trip unit 500A
Contactor	LC1G265LSEA			High power contactor (3NO), AC-3 <=440V version, 200...500V w
		Remote Wear Diagnostic (RWD) Module	LA9GRD01	Remote Wear Diagno TeSys Giga contactor
Contactor	LC1G265LSEA			High power contactor (3NO), AC-3 <=440V version, 200...500V w
Contactor	LC1G150LSEA			High power contactor (3NO), AC-3 <=440V version, 200...500V w
Thermal Relay	LR9G500			Electronic thermal ov Giga,125-500 A,class control connection

Accessories - Part Number	Short description	Quantity
	Circuit breaker, ComPacT NSX630H, 70kA/415VAC, 3 poles, MicroLogic 1.3M trip unit 500A	1
	High power contactor, TeSys Giga, 3 pole (3NO), AC-3 <=440V 265A, advanced version, 200...500V wide band AC/DC coil	1
LA9GRD01	Remote Wear Diagnostic Module (NC), for TeSys Giga contactor LC1G	1
	High power contactor, TeSys Giga, 3 pole (3NO), AC-3 <=440V 265A, advanced version, 200...500V wide band AC/DC coil	1
	High power contactor, TeSys Giga, 3 pole (3NO), AC-3 <=440V 150A, advanced version, 200...500V wide band AC/DC coil	1
	Electronic thermal overload relay,TeSys Giga,125-500 A,class 5E-30E,push-in control connection	1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Course Name	New 2024 Pricing - Classroom Training (6% increase) - pp vat
Manufacturing Execution System Software (MES)	
Ampla Performance (On Demand)	ZAR 10,500.0
Schneider Electric PLC (M340/M580/TM221,M262)	
Introduction to PLC - level 1	ZAR 10,500.0
EcoStruxure Control Expert Programming - level 2	ZAR 17,500.0
EcoStruxure Control Expert Intermediate level - level 3	ZAR 3,600.00
M580 Programming - level 4	ZAR 10,500.0
Introduction to SOMachine (On Demand)	ZAR 7,000.00
M262 Programming (On Demand)	#REF!
EcoStruxure Process Expert (Hybrid DCS)	
EcoStruxure Process Expert (On Demand)	ZAR 17,500.0
Supervisory Control & Data Acquisition software (SCADA)	

Citect Configuration 2018	ZAR 13,900.0
Citect 2018 – Workspace and Situational Awareness (On Demand)	ZAR 7,000.00
Cicode Programming (On Demand)	ZAR 7,000.00
Citect Architecture & Redundancy (On Demand)	ZAR 7,000.00
Networking Connectivity	
Principles of Ethernet Networking	ZAR 10,500.0
EcoStruxure Control Expert Modbus & CANopen configuration (On Demand) - Level 4	ZAR 10,500.0
EcoStruxure Control Expert Ethernet IP & Profibus configuration (On Demand) - Level 4	ZAR 10,500.0
Human Machine Interface (HMI)	
HMI Programming (Vijeo Designer)	ZAR 10,500.0
EcoStruxure Machine SCADA Expert (On Demand)	ZAR 13,900.0
Telemetry	
Trio Licensed Radio (On Demand)	ZAR 3,600.00
RemoteConnect – SCADAPack x70 (On Demand)	ZAR 3,600.00
Geo SCADA (On Demand)	ZAR 10,500.0
Motor Controls	
Introduction to Variable Speed Drives	ZAR 7,000.00
Altivar Process Drive Systems	ZAR 7,000.00
EcoStruxure Motor Protection Control (EMPC)	ZAR 10,500.0
Low Voltage	
Low Voltage Electrical Distribution (L.V.E.D)	ZAR 10,500.0
SPD (Surge Protection Device) (On Demand)	ZAR 2,500.00
Medium Voltage (PremSet & RM6)	
Medium Voltage Electrical Distribution (M.V.E.D.)	ZAR 10,500.0
PremSet Customer Training	ZAR 7,000.00
RM6 Customer Training	ZAR 7,000.00
Electrical Novice	
Basic Electrical Training	ZAR 3,600.00

Protection Relay	
Sepam Level 1 - (On Demand)	ZAR 7,000.00
EcoStruxure Power Monitoring Expert (PowerLogic PM3200, 5000, 8000, ION900, ION7400)	
EcoStruxure Power Monitoring Expert: Project Deployment	ZAR 17,500.0

AI Engineer Skill Assessment - Mar 4, 2025 - 1:05:49 PM		
Your overall results	Low	'10/35'
Azure AI Fundamentals	Low	'0/4'
Designing and Implementing a Microsoft Azure AI Solution	Moderate	'10/31'
Category	Link-Text	Link
Azure AI Fundamentals		https://learn.microsoft.com
Azure AI Fundamentals	Microsoft Azure AI Fundamentals: Computer Vision	https://learn.microsoft.com/e vision-microsoft-azure/
Azure AI Fundamentals	Microsoft Azure AI Fundamentals: Natural Language Processing	https://learn.microsoft.com/e language-processing/
Azure AI Fundamentals	Microsoft Azure AI Fundamentals: Document Intelligence and Knowledge Mining	https://learn.microsoft.com/e intelligence-knowledge-mini
Azure AI Fundamentals	Microsoft Azure AI Fundamentals: Generative AI	https://learn.microsoft.com/e generative-ai/
Designing and Implementing a Microsoft Azure AI Solution		https://learn.microsoft.com
Designing and Implementing a	Get started with Azure AI Services	https://learn.microsoft.com/e

Microsoft Azure AI Solution		
Designing and Implementing a Microsoft Azure AI Solution	Develop decision support solutions with Azure AI Services	https://learn.microsoft.com/e support/
Designing and Implementing a Microsoft Azure AI Solution	Create computer vision solutions with Azure AI Vision	https://learn.microsoft.com/e vision-solutions-azure-ai/
Designing and Implementing a Microsoft Azure AI Solution	Develop natural language processing solutions with Azure AI Services	https://learn.microsoft.com/e solutions-azure-ai/
Designing and Implementing a Microsoft Azure AI Solution	Implement knowledge mining with Azure Cognitive Search	https://learn.microsoft.com/e knowledge-mining-azure-cog
Designing and Implementing a Microsoft Azure AI Solution	Develop solutions with Azure AI Document Intelligence	https://learn.microsoft.com/e forms-document-intelligence
Designing and Implementing a Microsoft Azure AI Solution	Develop Generative AI solutions with Azure OpenAI Service	https://learn.microsoft.com/e azure-openai/

Category	Question	Answers
Azure AI Fundamentals	Fundamental AI Concepts	Azure Machine Learning
Azure AI Fundamentals	Fundamental AI Concepts	Azure AI Bot Service
Azure AI Fundamentals	Fundamental AI Concepts	Azure AI Language
Azure AI Fundamentals	Fundamentals of machine learning	Regression
Azure AI Fundamentals	Fundamentals of machine learning	Classification
Azure AI Fundamentals	Fundamentals of machine learning	Clustering
Azure AI Fundamentals	Fundamentals of Azure AI services	A multi-service resource tha
Azure AI Fundamentals	Fundamentals of Azure AI services	A single-service resource for
Azure AI Fundamentals	Fundamentals of Azure AI services	It's not possible to see costs
Azure AI Fundamentals	Fundamentals of Computer Vision	Timestamps in photograph r

Azure AI Fundamentals	Fundamentals of Computer Vision	Pixels
Azure AI Fundamentals	Fundamentals of Computer Vision	Image file names
Azure AI Fundamentals	Fundamentals of Facial Recognition	A pair of coordinates for eac
Azure AI Fundamentals	Fundamentals of Facial Recognition	Two pairs of coordinates for eyes
Azure AI Fundamentals	Fundamentals of Facial Recognition	A set of coordinates for each around the face
Azure AI Fundamentals	Fundamentals of optical character recognition	Azure AI Vision
Azure AI Fundamentals	Fundamentals of optical character recognition	Azure AI services
Azure AI Fundamentals	Fundamentals of optical character recognition	Azure AI Language
Azure AI Fundamentals	Fundamentals of Text Analysis with the Language Service	Sentiment analysis
Azure AI Fundamentals	Fundamentals of Text Analysis with the Language Service	Key phrase extraction
Azure AI Fundamentals	Fundamentals of Text Analysis with the Language Service	Entity detection
Azure AI Fundamentals	Fundamentals of question answering with the Language Service	"Create an empty knowledg the FAQ entries into it.
Azure AI Fundamentals	Fundamentals of question answering with the Language Service	Import the existing FAQ doc
Azure AI Fundamentals	Fundamentals of question answering with the Language Service	Import a pre-defined chit-ch
Azure AI Fundamentals	Fundamentals of conversational language understanding	Azure AI Speech
Azure AI Fundamentals	Fundamentals of conversational language understanding	Azure AI Language
Azure AI Fundamentals	Fundamentals of conversational language understanding	Azure AI services
Azure AI Fundamentals	Fundamentals of Azure AI Speech	Speech
Azure AI Fundamentals	Fundamentals of Azure AI Speech	Language
Azure AI Fundamentals	Fundamentals of Azure AI Speech	Azure AI services
Azure AI Fundamentals	Fundamentals of Azure AI Document Intelligence	Azure AI Vision resource
Azure AI Fundamentals	Fundamentals of Azure AI Document Intelligence	Azure AI Document Intellige
Azure AI Fundamentals	Fundamentals of Azure AI Document Intelligence	Azure AI Language resource
Azure AI Fundamentals	Fundamentals of Knowledge Mining with Azure Cognitive Search	CSV
Azure AI	Fundamentals of Knowledge Mining	SQL

Fundamentals	with Azure Cognitive Search	
Azure AI Fundamentals	Fundamentals of Knowledge Mining with Azure Cognitive Search	JSON
Azure AI Fundamentals	Fundamentals of Generative AI	Models that only work with c
Azure AI Fundamentals	Fundamentals of Generative AI	Models that only work with s
Azure AI Fundamentals	Fundamentals of Generative AI	Models that use deep learnir language on a massive scale
Azure AI Fundamentals	Fundamentals of Azure OpenAI Service	Azure OpenAI is Microsoft's v generative AI models.
Azure AI Fundamentals	Fundamentals of Azure OpenAI Service	ChatGPT and OpenAI are cha code, and images. Azure Op chatbots.
Azure AI Fundamentals	Fundamentals of Azure OpenAI Service	OpenAI is a research compa uses generative AI models. A OpenAI's AI models.
Azure AI Fundamentals	Fundamentals of Responsible Generative AI	To make a legal case that in harms caused by the solutio
Azure AI Fundamentals	Fundamentals of Responsible Generative AI	To document the purpose, e solution
Azure AI Fundamentals	Fundamentals of Responsible Generative AI	To evaluate the cost of cloud solution
Designing and Implementing a Microsoft Azure AI Solution	Prepare to develop AI solutions on Azure	Absolutely correct values ba
Designing and Implementing a Microsoft Azure AI Solution	Prepare to develop AI solutions on Azure	Randomly selected values w
Designing and Implementing a Microsoft Azure AI Solution	Prepare to develop AI solutions on Azure	Probabilistic values based or
Designing and Implementing a Microsoft Azure AI Solution	Create and consume Azure AI services	The application must specify resource.
Designing and Implementing a Microsoft Azure AI Solution	Create and consume Azure AI services	The user of the application n associated with the Azure su
Designing and Implementing a Microsoft Azure AI Solution	Create and consume Azure AI services	Access to Azure AI Services
Designing and Implementing a	Secure Azure AI services	Switch the app to use the se

Microsoft Azure AI Solution		
Designing and Implementing a Microsoft Azure AI Solution	Secure Azure AI services	Change the resource endpoi
Designing and Implementing a Microsoft Azure AI Solution	Secure Azure AI services	Enable a firewall
Designing and Implementing a Microsoft Azure AI Solution	Monitor Azure AI services	Create an alert.
Designing and Implementing a Microsoft Azure AI Solution	Monitor Azure AI services	Configure diagnostic setting
Designing and Implementing a Microsoft Azure AI Solution	Monitor Azure AI services	Create a dashboard.
Designing and Implementing a Microsoft Azure AI Solution	Deploy Azure AI services in containers	Client applications must pas endpoint before using the co
Designing and Implementing a Microsoft Azure AI Solution	Deploy Azure AI services in containers	The container must be able to send usage data for billin
Designing and Implementing a Microsoft Azure AI Solution	Deploy Azure AI services in containers	All data passed from the clie forwarded to the Azure reso
Designing and Implementing a Microsoft Azure AI Solution	Make recommendations with Azure AI Personalizer	In the Azure portal, go to the resource, and view the Perso
Designing and Implementing a Microsoft Azure AI Solution	Make recommendations with Azure AI Personalizer	In the Azure portal, go to the resource, and view the Base
Designing and Implementing a Microsoft Azure AI Solution	Make recommendations with Azure AI Personalizer	In the Azure portal, go to the resource, and view the Rewa
Designing and Implementing a Microsoft Azure AI Solution	Analyze images	Tags

Designing and Implementing a Microsoft Azure AI Solution	Analyze images	Description
Designing and Implementing a Microsoft Azure AI Solution	Analyze images	Categories
Designing and Implementing a Microsoft Azure AI Solution	Classify images	"Image classification (multic
Designing and Implementing a Microsoft Azure AI Solution	Classify images	Image classification (multila
Designing and Implementing a Microsoft Azure AI Solution	Classify images	Object detection
Designing and Implementing a Microsoft Azure AI Solution	Detect objects in images	The location and class of spe
Designing and Implementing a Microsoft Azure AI Solution	Detect objects in images	The class of the main subjec
Designing and Implementing a Microsoft Azure AI Solution	Detect objects in images	The file type of an image.
Designing and Implementing a Microsoft Azure AI Solution	Detect, analyze, and recognize faces	Location
Designing and Implementing a Microsoft Azure AI Solution	Detect, analyze, and recognize faces	Type of eye-glasses
Designing and Implementing a Microsoft Azure AI Solution	Detect, analyze, and recognize faces	Occlusion
Designing and Implementing a Microsoft Azure AI Solution	Read Text in Images and Documents with the Azure AI Vision Service	Only total content and page
Designing and Implementing a	Read Text in Images and Documents with the Azure AI Vision Service	Pages, words and lines of te

Microsoft Azure AI Solution		
Designing and Implementing a Microsoft Azure AI Solution	Read Text in Images and Documents with the Azure AI Vision Service	Total content, pages, words
Designing and Implementing a Microsoft Azure AI Solution	Analyze video	Use the Azure AI Vision serv
Designing and Implementing a Microsoft Azure AI Solution	Analyze video	Upload the video to Azure Vi
Designing and Implementing a Microsoft Azure AI Solution	Analyze video	Store the video file in an Azu
Designing and Implementing a Microsoft Azure AI Solution	Analyze text with Azure AI Language	Use the Azure AI Language s
Designing and Implementing a Microsoft Azure AI Solution	Analyze text with Azure AI Language	Use the Azure AI Language s the comments.
Designing and Implementing a Microsoft Azure AI Solution	Analyze text with Azure AI Language	Use the Azure AI Language s comments.
Designing and Implementing a Microsoft Azure AI Solution	Build a question answering solution	Create an empty knowledge questions and answers.
Designing and Implementing a Microsoft Azure AI Solution	Build a question answering solution	Create a new knowledge bas
Designing and Implementing a Microsoft Azure AI Solution	Build a question answering solution	"Create a new knowledge ba chat source.
Designing and Implementing a Microsoft Azure AI Solution	Build a conversational language understanding model	Intents
Designing and Implementing a Microsoft Azure AI Solution	Build a conversational language understanding model	Utterances

Designing and Implementing a Microsoft Azure AI Solution	Build a conversational language understanding model	Entities
Designing and Implementing a Microsoft Azure AI Solution	Develop an app with Azure AI Language	Sentiment analysis
Designing and Implementing a Microsoft Azure AI Solution	Develop an app with Azure AI Language	Key phrase extraction
Designing and Implementing a Microsoft Azure AI Solution	Develop an app with Azure AI Language	Entity recognition
Designing and Implementing a Microsoft Azure AI Solution	Create a custom text classification solution	A single label classification p
Designing and Implementing a Microsoft Azure AI Solution	Create a custom text classification solution	A multiple label classificatio
Designing and Implementing a Microsoft Azure AI Solution	Create a custom text classification solution	A varied label classification p
Designing and Implementing a Microsoft Azure AI Solution	Create a custom named entity extraction solution	Recall
Designing and Implementing a Microsoft Azure AI Solution	Create a custom named entity extraction solution	Precision
Designing and Implementing a Microsoft Azure AI Solution	Create a custom named entity extraction solution	F1 score
Designing and Implementing a Microsoft Azure AI Solution	Translate text with the Azure AI Translator service	Detect
Designing and Implementing a Microsoft Azure AI Solution	Translate text with the Azure AI Translator service	Translate
Designing and Implementing a	Translate text with the Azure AI Translator service	Transliterate

Microsoft Azure AI Solution		
Designing and Implementing a Microsoft Azure AI Solution	Create speech-enabled apps with Azure AI services	The location and one of the
Designing and Implementing a Microsoft Azure AI Solution	Create speech-enabled apps with Azure AI services	The primary and secondary
Designing and Implementing a Microsoft Azure AI Solution	Create speech-enabled apps with Azure AI services	The endpoint and one of the
Designing and Implementing a Microsoft Azure AI Solution	Translate speech with the Azure AI Speech service	SpeechConfig
Designing and Implementing a Microsoft Azure AI Solution	Translate speech with the Azure AI Speech service	SpeechTranslationConfig
Designing and Implementing a Microsoft Azure AI Solution	Translate speech with the Azure AI Speech service	AudioConfig
Designing and Implementing a Microsoft Azure AI Solution	Create an Azure Cognitive Search solution	Add a JSON file that defines container.
Designing and Implementing a Microsoft Azure AI Solution	Create an Azure Cognitive Search solution	Enable anonymous access fo
Designing and Implementing a Microsoft Azure AI Solution	Create an Azure Cognitive Search solution	In an Azure AI Services resou references the container wh
Designing and Implementing a Microsoft Azure AI Solution	Create a custom skill for Azure Cognitive Search	Create a custom skill that us predict the sentiment for a c
Designing and Implementing a Microsoft Azure AI Solution	Create a custom skill for Azure Cognitive Search	Create a custom skill that ca predict the sentiment of eac
Designing and Implementing a Microsoft Azure AI Solution	Create a custom skill for Azure Cognitive Search	Add the built-in Sentiment sk

Designing and Implementing a Microsoft Azure AI Solution	Create a knowledge store with Azure Cognitive Search	Merge
Designing and Implementing a Microsoft Azure AI Solution	Create a knowledge store with Azure Cognitive Search	Shaper
Designing and Implementing a Microsoft Azure AI Solution	Create a knowledge store with Azure Cognitive Search	Split
Designing and Implementing a Microsoft Azure AI Solution	Enrich a search index using Language Studio	Conversational language un
Designing and Implementing a Microsoft Azure AI Solution	Enrich a search index using Language Studio	Analyze sentiment.
Designing and Implementing a Microsoft Azure AI Solution	Enrich a search index using Language Studio	Custom text classification.
Designing and Implementing a Microsoft Azure AI Solution	Implement advanced search features in Azure Cognitive Search	+
Designing and Implementing a Microsoft Azure AI Solution	Implement advanced search features in Azure Cognitive Search	^
Designing and Implementing a Microsoft Azure AI Solution	Implement advanced search features in Azure Cognitive Search	!
Designing and Implementing a Microsoft Azure AI Solution	Build an Azure Machine Learning custom skill for Azure Cognitive Search	Real-time endpoint
Designing and Implementing a Microsoft Azure AI Solution	Build an Azure Machine Learning custom skill for Azure Cognitive Search	Web service
Designing and Implementing a Microsoft Azure AI Solution	Build an Azure Machine Learning custom skill for Azure Cognitive Search	Batch endpoint
Designing and Implementing a	Search data outside the Azure platform in Azure Cognitive Search using Azure	You can only upload one doc

Microsoft Azure AI Solution	Data Factory	
Designing and Implementing a Microsoft Azure AI Solution	Search data outside the Azure platform in Azure Cognitive Search using Azure Data Factory	The JSON can't contain comp
Designing and Implementing a Microsoft Azure AI Solution	Search data outside the Azure platform in Azure Cognitive Search using Azure Data Factory	You have to define the index
Designing and Implementing a Microsoft Azure AI Solution	Maintain an Azure Cognitive Search Solution	Create an Azure Cognitive S service tier and at least two
Designing and Implementing a Microsoft Azure AI Solution	Maintain an Azure Cognitive Search Solution	Create an Azure Cognitive S tier and at least three replic
Designing and Implementing a Microsoft Azure AI Solution	Maintain an Azure Cognitive Search Solution	Create an Azure Cognitive S tier and one replica.
Designing and Implementing a Microsoft Azure AI Solution	Use semantic search to get better search results in Azure Cognitive Search	Up to 50.
Designing and Implementing a Microsoft Azure AI Solution	Use semantic search to get better search results in Azure Cognitive Search	As many results as the BM25
Designing and Implementing a Microsoft Azure AI Solution	Use semantic search to get better search results in Azure Cognitive Search	Up to 25.
Designing and Implementing a Microsoft Azure AI Solution	Improve search results using vector search in Azure Cognitive Search	To create a search to match
Designing and Implementing a Microsoft Azure AI Solution	Improve search results using vector search in Azure Cognitive Search	When you need to find matc search index.
Designing and Implementing a Microsoft Azure AI Solution	Improve search results using vector search in Azure Cognitive Search	To upload and index a docu
Designing and Implementing a Microsoft Azure AI Solution	Plan an Azure AI Document Intelligence solution	A Read model.

Designing and Implementing a Microsoft Azure AI Solution	Plan an Azure AI Document Intelligence solution	A Layout model.
Designing and Implementing a Microsoft Azure AI Solution	Plan an Azure AI Document Intelligence solution	A Composed model.
Designing and Implementing a Microsoft Azure AI Solution	Use prebuilt Azure AI Document Intelligence models	Read model.
Designing and Implementing a Microsoft Azure AI Solution	Use prebuilt Azure AI Document Intelligence models	General document model.
Designing and Implementing a Microsoft Azure AI Solution	Use prebuilt Azure AI Document Intelligence models	ID document model.
Designing and Implementing a Microsoft Azure AI Solution	Extract data from forms with Azure Document Intelligence	Train Model and Get Model L
Designing and Implementing a Microsoft Azure AI Solution	Extract data from forms with Azure Document Intelligence	Analyze Invoice and Get Ana
Designing and Implementing a Microsoft Azure AI Solution	Extract data from forms with Azure Document Intelligence	Create Azure Document Inte
Designing and Implementing a Microsoft Azure AI Solution	Create a composed Form Recognizer model	modelId
Designing and Implementing a Microsoft Azure AI Solution	Create a composed Form Recognizer model	status
Designing and Implementing a Microsoft Azure AI Solution	Create a composed Form Recognizer model	docType
Designing and Implementing a Microsoft Azure AI Solution	Build an Azure AI Document Intelligence custom skill for Azure Cognitive Search	formUrl
Designing and Implementing a	Build an Azure AI Document Intelligence custom skill for Azure	recordId

Microsoft Azure AI Solution	Cognitive Search	
Designing and Implementing a Microsoft Azure AI Solution	Build an Azure AI Document Intelligence custom skill for Azure Cognitive Search	formSasToken
Designing and Implementing a Microsoft Azure AI Solution	Get started with Azure OpenAI Service	text-davinci-003
Designing and Implementing a Microsoft Azure AI Solution	Get started with Azure OpenAI Service	gpt-35-turbo
Designing and Implementing a Microsoft Azure AI Solution	Get started with Azure OpenAI Service	text-embedding-ada-002 (Ve
Designing and Implementing a Microsoft Azure AI Solution	Build natural language solutions with Azure OpenAI Service	Chat, Embedding, and Comp
Designing and Implementing a Microsoft Azure AI Solution	Build natural language solutions with Azure OpenAI Service	Key, Endpoint, and Deploym
Designing and Implementing a Microsoft Azure AI Solution	Build natural language solutions with Azure OpenAI Service	Summary, Deployment nam
Designing and Implementing a Microsoft Azure AI Solution	Apply prompt engineering with Azure OpenAI Service	By using complex instructior
Designing and Implementing a Microsoft Azure AI Solution	Apply prompt engineering with Azure OpenAI Service	By providing clear and descr
Designing and Implementing a Microsoft Azure AI Solution	Apply prompt engineering with Azure OpenAI Service	By using vague prompts
Designing and Implementing a Microsoft Azure AI Solution	Generate code with Azure OpenAI Service	Increase in efficiency and pr
Designing and Implementing a Microsoft Azure AI Solution	Generate code with Azure OpenAI Service	Increase in bugs and readab

Designing and Implementing a Microsoft Azure AI Solution	Generate code with Azure OpenAI Service	Increase in time spent codin
Designing and Implementing a Microsoft Azure AI Solution	Generate images with Azure OpenAI Service	DALL-E
Designing and Implementing a Microsoft Azure AI Solution	Generate images with Azure OpenAI Service	GPT-35-Turbo
Designing and Implementing a Microsoft Azure AI Solution	Generate images with Azure OpenAI Service	Text-Davinci
Designing and Implementing a Microsoft Azure AI Solution	Use your own data with Azure OpenAI Service	Create their own AI chat mo
Designing and Implementing a Microsoft Azure AI Solution	Use your own data with Azure OpenAI Service	Access Azure OpenAI withou
Designing and Implementing a Microsoft Azure AI Solution	Use your own data with Azure OpenAI Service	Use supported AI chat mode data
Designing and Implementing a Microsoft Azure AI Solution	Fundamentals of Responsible Generative AI	To make a legal case that in harms caused by the solutio
Designing and Implementing a Microsoft Azure AI Solution	Fundamentals of Responsible Generative AI	To document the purpose, e solution.
Designing and Implementing a Microsoft Azure AI Solution	Fundamentals of Responsible Generative AI	To evaluate the cost of cloud solution.

Azure VMware Solution (AVS) | Microsoft Partner - Mar 4, 2025 - 1:22:59 PM		
Your overall results	Excellent	'6/6'
AVS | Readiness Resources	Excellent	'8/10'
AVS | Marketplace Offer Development Resources	Excellent	'3/3'
AVS | Specialization Resources	Excellent	'4/4'
AVS | Cosell Acceleration Resources	Excellent	'9/9'
Category	Link-Text	Link
AVS | Readiness Resources	Introduction	https://learn.mic
AVS | Readiness Resources	Learning Resources	https://aka.ms/A
AVS | Readiness Resources	Learning Path	https://aka.ms/A
AVS | Readiness Resources	Overview Video	https://aka.ms/A
AVS | Readiness Resources	AVS Academy	https://aka.ms/A
AVS | Readiness Resources	VMware for Azure VMware Solution Master Specialist Exam	https://aka.ms/A
AVS | Readiness Resources	VMware TechZone	https://aka.ms/A
AVS | Readiness Resources	Landing Zone Accelerator	https://aka.ms/A
AVS | Readiness Resources	Landing Zone Accelerator GitHub Repository	https://aka.ms/A
AVS | Readiness Resources	Landing Zone Assessment Review	https://aka.ms/A
AVS | Readiness Resources	Landing Zone Assessment Network Design Guide	https://aka.ms/A
AVS | Readiness Resources	Deployment Checklist	https://aka.ms/A
AVS | Readiness Resources	Azure Well-Architected Assessment for AVS	https://aka.ms/A
AVS | Readiness Resources	Azure Well-Architected Documentation for AVS	https://aka.ms/A
AVS | Readiness Resources	Azure Proactive Resiliency Library for AVS	https://aka.ms/A
AVS | Readiness Resources	AVS Updates	https://aka.ms/A
AVS | Readiness Resources	Migrating VMware vSphere workloads to Azure VMware Solution	https://learn.mic scenarios/azure-
AVS | Readiness Resources	Extending hybrid and multi-cloud agility	https://learn.mic with-azure

AVS | Readiness Resources	High availability and disaster recovery for VMware workloads	https://learn.mic using-vmware-si
AVS | Readiness Resources	Azure VMware Solution for Desktop virtualization	https://learn.mic solution-horizon
AVS | Readiness Resources	AVS LAB Automation	https://github.co
AVS | Readiness Resources	VMware AVS Hands-on Labs	https://aka.ms/A
AVS | Readiness Resources	AVS Workshop Lab Guide	https://aka.ms/A
AVS | Marketplace Offer Development Resources	Sell through the commercial marketplace	https://learn.mic marketplace/
AVS | Marketplace Offer Development Resources	Plan a Consulting Service Offer, applicable for AVS Service	https://learn.mic consulting-servic
AVS | Marketplace Offer Development Resources	Partner Got-To-Market Toolbox	http://aka.ms/gtr
AVS | Specialization Resources	Specialization Overview	https://aka.ms/A
AVS | Specialization Resources	Specialization Video	https://aka.ms/A
AVS | Specialization Resources	Specialization Audit Checklist	https://aka.ms/A
AVS | Specialization Resources	Specialization Assessment	https://aka.ms/A
AVS | Cosell Acceleration Resources	AVS Customer Story	https://aka.ms/A
AVS | Cosell Acceleration Resources	IDC white paper: The Business Value of Azure VMware Solution	https://aka.ms/A
AVS | Cosell Acceleration Resources	Digital Marketing Campaign (On Demand)	https://aka.ms/A
AVS | Cosell Acceleration Resources	AVS Pricing Reference	https://aka.ms/A
AVS | Cosell Acceleration Resources	AVS Go Big for Partners	https://aka.ms/A
AVS | Cosell Acceleration Resources	AVS Partner Assets Collection	https://aka.ms/A
AVS | Cosell Acceleration Resources	AVS Pros (LinkedIn Group)	https://aka.ms/A
AVS | Cosell Acceleration Resources	Partners Incentives and Programs	https://aka.ms/Pa
AVS | Cosell Acceleration Resources	AVS Bootcamp Sales Track	https://aka.ms/av
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Category	Question	Answers
AVS | Readiness Resources	Opportunity and Use Cases	Migrating VMwar
AVS | Readiness Resources	Opportunity and Use Cases	Extending hybrid
AVS | Readiness Resources	Opportunity and Use Cases	High availability
AVS | Readiness Resources	Opportunity and Use Cases	Desktop virtualiz

AVS | Readiness Resources	Opportunity and Use Cases	Azure Migrate ar
AVS | Readiness Resources	Training Resources	Introduction
AVS | Readiness Resources	Training Resources	Learning Path
AVS | Readiness Resources	Training Resources	Learning Resour
AVS | Readiness Resources	Training Resources	Overview Video
AVS | Readiness Resources	Training Resources	AVS Academy
AVS | Readiness Resources	Training Resources	VMware TechZon
AVS | Readiness Resources	Training Resources	VMware for Azur
AVS | Readiness Resources	Training Resources	AVS LAB Automa
AVS | Readiness Resources	Training Resources	VMware AVS Har
AVS | Readiness Resources	Training Resources	AVS Workshop La
AVS | Readiness Resources	Deployment Guidance	Landing Zone Ac
AVS | Readiness Resources	Deployment Guidance	Landing Zone Ac
AVS | Readiness Resources	Deployment Guidance	Landing Zone As
AVS | Readiness Resources	Deployment Guidance	Landing Zone As
AVS | Readiness Resources	Deployment Guidance	Deployment Che
AVS | Readiness Resources	Deployment Guidance	Azure Well-Archi
AVS | Readiness Resources	Deployment Guidance	Azure Well-Archi
AVS | Readiness Resources	Deployment Guidance	Azure Proactive
AVS | Readiness Resources	Deployment Guidance	VMware Workloa
AVS | Readiness Resources	Deployment Guidance	AVS Updates
AVS | Marketplace Offer Development Resources	Marketplace Training and Support Resources	Sell through the
AVS | Marketplace Offer Development Resources	Marketplace Training and Support Resources	Plan a Consulting
AVS | Marketplace Offer Development Resources	Marketplace Training and Support Resources	Partner Got-To-M
AVS | Specialization Resources	AVS Specialization details	Specialization O
AVS | Specialization Resources	AVS Specialization details	Specialization V
AVS | Specialization Resources	AVS Specialization details	Specialization A
AVS | Specialization Resources	AVS Specialization details	Specialization As
AVS | Cosell Acceleration Resources	Go-To-Market Assets & Recommended Sellers Training	AVS Customer St
AVS | Cosell Acceleration Resources	Go-To-Market Assets & Recommended Sellers Training	IDC white paper:
AVS | Cosell Acceleration Resources	Go-To-Market Assets & Recommended Sellers Training	Digital Marketing
AVS | Cosell Acceleration	Go-To-Market Assets & Recommended	AVS Pricing Refe

Resources	Sellers Training	
AVS | Cosell Acceleration Resources	Go-To-Market Assets & Recommended Sellers Training	AVS Go Big for P
AVS | Cosell Acceleration Resources	Go-To-Market Assets & Recommended Sellers Training	AVS Partner Asse
AVS | Cosell Acceleration Resources	Go-To-Market Assets & Recommended Sellers Training	AVS Pros (Linked
AVS | Cosell Acceleration Resources	Go-To-Market Assets & Recommended Sellers Training	Partners Incentiv
AVS | Cosell Acceleration Resources	Go-To-Market Assets & Recommended Sellers Training	AVS Bootcamp S

Microsoft Cloud for Sustainability Adoption Guide | Microsoft Partners - Mar 4, 2025 -					

12:03:23 PM					
Your overall results	Excellent	'3/3'			
Sustainability Readiness Resources	Excellent	'3/4'			
Marketplace Offer Development Resources	Excellent	'3/3'			
Sustainability Cosell Acceleration Resources	Excellent	'2/2'			
Category	Link-Text	Link	Priority	ReportingCategory	ReportingSubcategory
Sustainability Readiness Resources	This is AI ... for Sustainability	https://info.microsoft.com/ww-landing-this-is-AI-for-sustainability.html?ocid=cmmop4zodtb	High		
Sustainability Readiness	Microsoft Cloud for Sustainability: ESG and the Future of Business	https://www.linkedin.com/learning/microsoft-cloud-for-sustainability-esg-and-the-future-of-business	High		

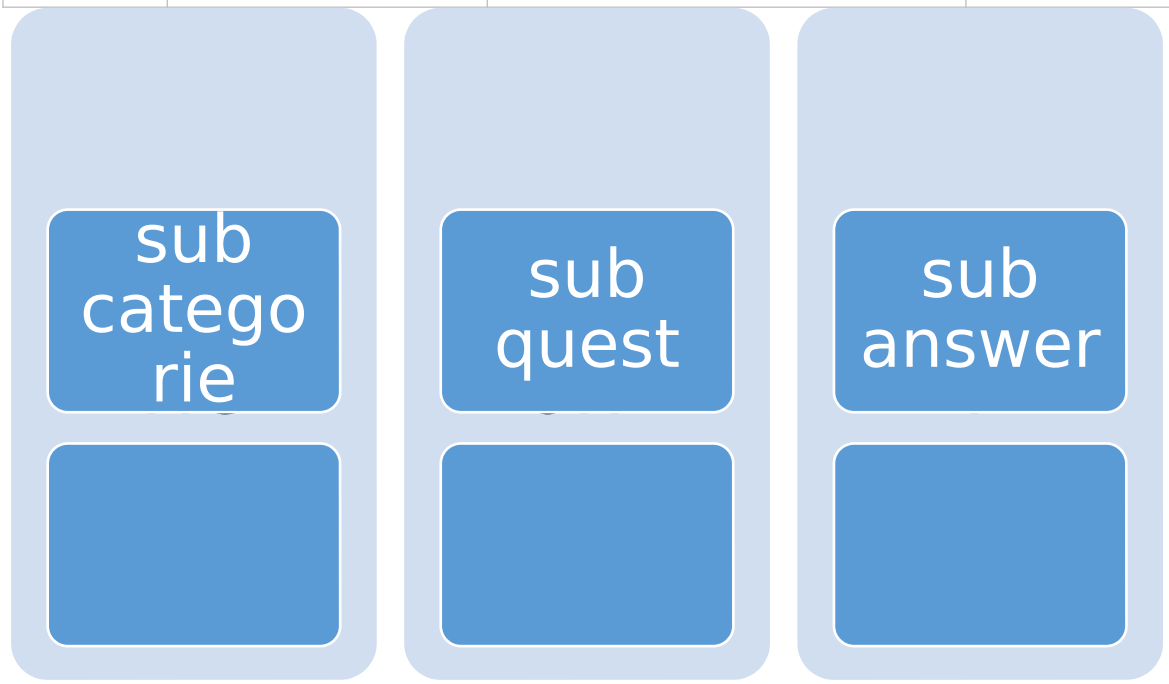
Resources					
Sustainability Readiness Resources	Microsoft Cloud for Sustainability Training Collection	https://aka.ms/mcfslearningpaths	High		
Sustainability Readiness Resources	Pre-sales licenses for Sustainability Manager sandbox Environments for Microsoft Partners	https://experience.dynamics.com/requestlicense/	High		
Sustainability Readiness Resources	Well-Architected for Microsoft Cloud for Sustainability	https://learn.microsoft.com/en-us/industry/well-architected/sustainability/	High		
Sustainability Readiness Resources	Roadmap: What's new in Microsoft Cloud for Sustainability overview	https://learn.microsoft.com/en-us/industry/sustainability/whats-new	High		
Sustainability Readiness Resources	Fabric Technical Resources	https://learn.microsoft.com/en-us/credentials/certifications/fabric-analytics-engineer-associate/?practice-assessment-type=certification	High		
Sustainability Readiness Resources	Microsoft Cloud for Sustainability Technical Summit	https://aka.ms/mcfstechsummit	High		
Marketplace Offer Development Resources	Sell Through the Commercial Marketplace	https://learn.microsoft.com/en-us/training/paths/sell-through-commercial-marketplace/	High		
Marketplace Offer Development	Microsoft Commercial Marketplace Publisher FAQ	https://learn.microsoft.com/en-us/partner-center/marketplace/marketplace-faq-publisher-guide	High		

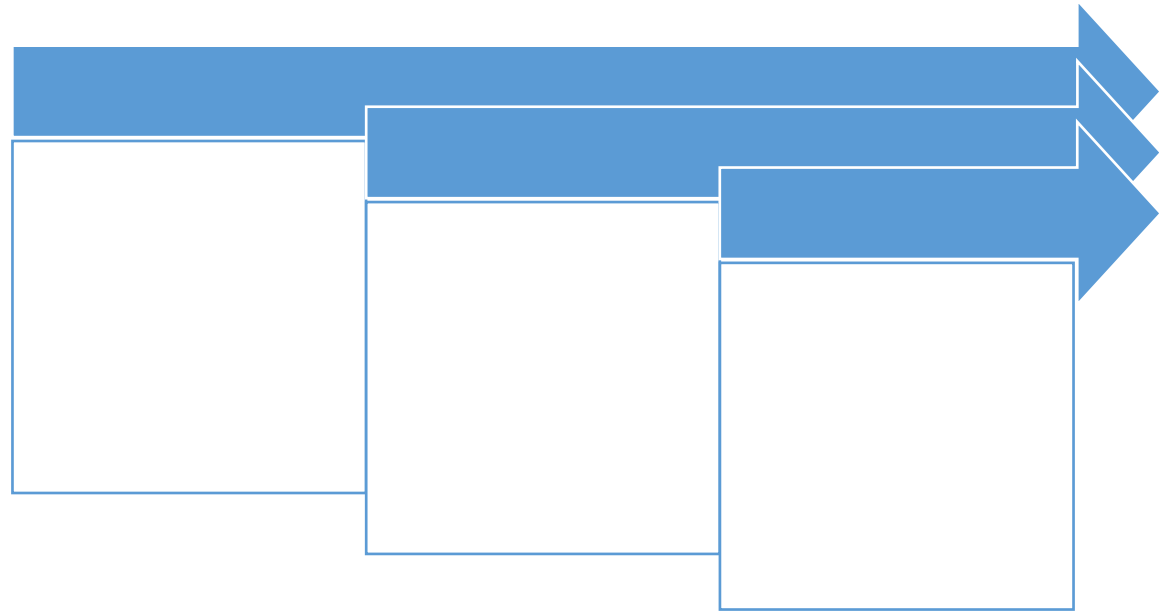
Resources					
Marketplace Offer Development Resources	Mastering the Marketplace: Office Hours	https://aka.ms/MTMofficehours	High		
Sustainability Cosell Acceleration Resources	Sustainability Marketing Campaigns	https://partner.microsoft.com/en-us/asset/collection/sustainability-marketing-campaigns#/	High		
Sustainability Cosell Acceleration Resources	Recommended Training for Sellers: Get started with Microsoft Cloud for Sustainability	https://learn.microsoft.com/en-us/training/paths/get-started-sustainability/	High		

Category	Question	Answers	Selected Answer	Note	
Sustainability Readiness Resources	Opportunity and Use Cases	This is AI … for Sustainability	This is AI … for Sustainability		
Sustainability Readiness Resources	Opportunity and Use Cases	Microsoft Cloud for Sustainability: ESG and the Future of Business	Microsoft Cloud for Sustainability: ESG and the Future of Business		
Sustainability Readiness Resources	Training Resources	Microsoft Cloud for Sustainability Training Collection	Microsoft Cloud for Sustainability Training Collection		
Sustainability Readiness	Training Resources	Pre-sales licenses for Sustainability Manager sandbox Environments for Microsoft Partners	Pre-sales licenses for Sustainability Manager sandbox Environments for		

Resources			Microsoft Partners		
Sustainability Readiness Resources	Training Resources	Fabric Technical Resources	Fabric Technical Resources		
Sustainability Readiness Resources	Training Resources	Microsoft Cloud for Sustainability Technical Summit	Microsoft Cloud for Sustainability Technical Summit		
Sustainability Readiness Resources	Roadmap and Best Practices	Well-Architected for Microsoft Cloud for Sustainability	Well-Architected for Microsoft Cloud for Sustainability		
Sustainability Readiness Resources	Roadmap and Best Practices	What's new in Microsoft Cloud for Sustainability overview	What's new in Microsoft Cloud for Sustainability overview		
Marketplace Offer Development Resources	Marketplace Training and Support Resources	Sell Through the Commercial Marketplace	Sell Through the Commercial Marketplace		
Marketplace Offer Development Resources	Marketplace Training and Support Resources	Microsoft Commercial Marketplace Publisher FAQ	Microsoft Commercial Marketplace Publisher FAQ		
Marketplace Offer Development Resources	Marketplace Training and Support Resources	Mastering the Marketplace: Office Hours	Mastering the Marketplace: Office Hours		
Sustainability Cosell	Go-To-Market Assets & Recommended	Sustainability Marketing Campaigns	Sustainability Marketing Campaigns		

Acceleration Resources	Sellers Training				
Sustainability Cosell Acceleration Resources	Go-To-Market Assets & Recommended Sellers Training	Recommended Sellers Training: Get started with Microsoft Cloud for Sustainability	Recommended Sellers Training: Get started with Microsoft Cloud for Sustainability		





Radar chart ,,

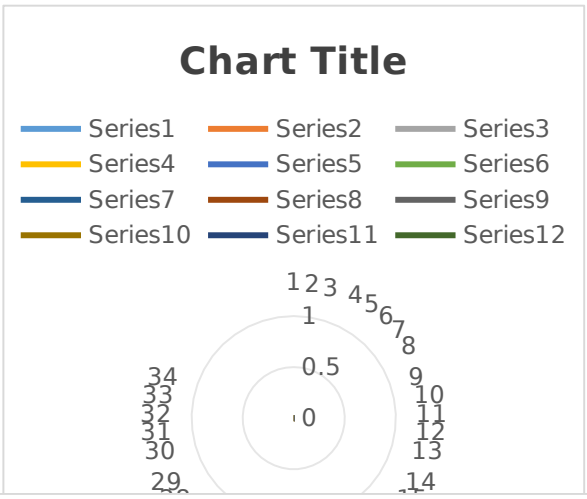


Chart Title
Series1
Series2
Series3
Series4
Series5
Series6
Series7
Series8
Series9
Series10
Series11
Series12
1 2 3 4 5 6 7 8 9 10 11 12 13 14
1
0.5
0
34 33 32 31 30 29

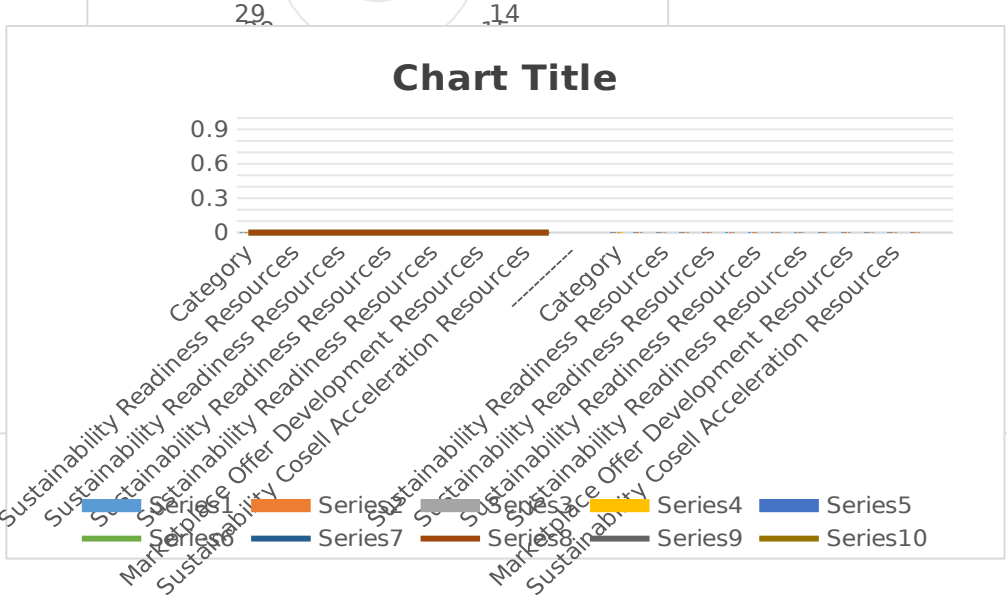


Chart Title
0.9
0.6
0.3
0
Category
Sustainability Readiness Resources
Sustainability Readiness Resources
Sustainability Readiness Resources
Sustainability Readiness Resources
Sustainability Readiness Resources
Marketplace Offer Development Resources
Sustainability Cosell Acceleration Resources
Category
Sustainability Readiness Resources
Sustainability Readiness Resources
Sustainability Readiness Resources
Sustainability Readiness Resources
Sustainability Readiness Resources
Marketplace Offer Development Resources
Sustainability Cosell Acceleration Resources
Series1
Series2
Series3
Series4
Series5
Series6
Series7
Series8
Series9
Series10

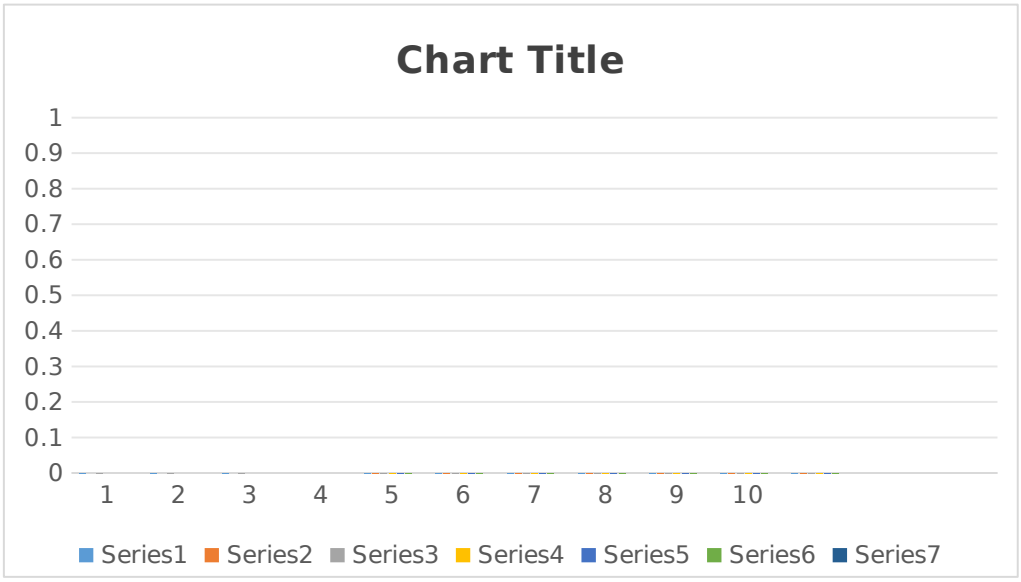


Chart Title
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1 2 3 4 5 6 7 8 9 10
Series1 Series2 Series3 Series4 Series5 Series6 Series7

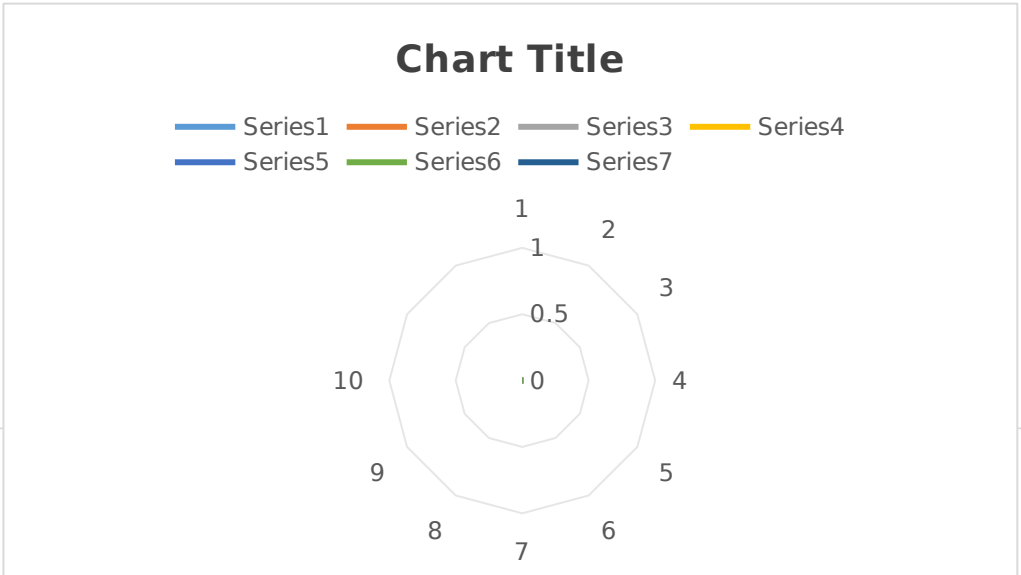


Chart Title
Series1 Series2 Series3 Series4
Series5 Series6 Series7
1
2
3
4
5
6
7
8
9
10
1
0.5
0

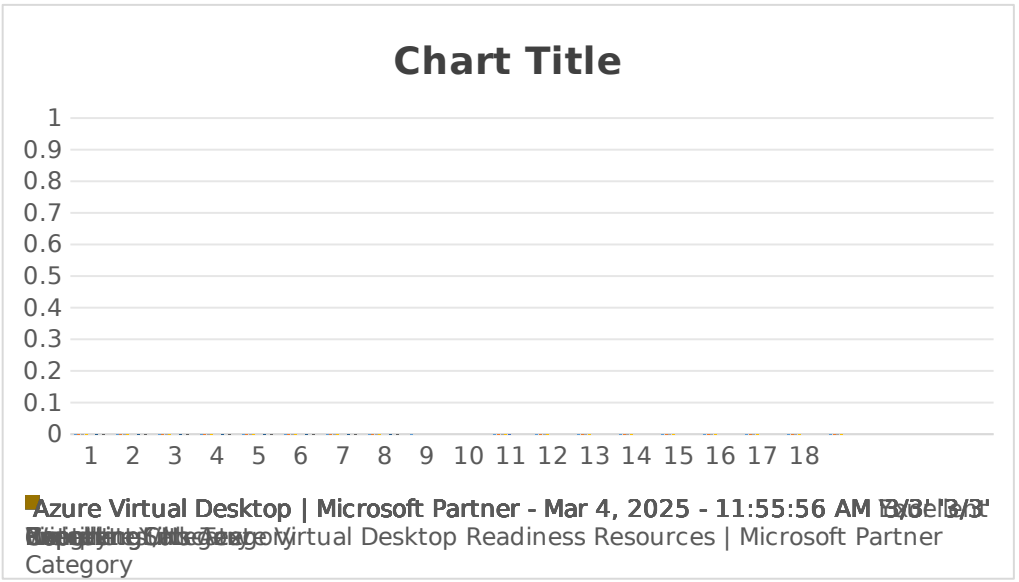


Chart Title
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18
Azure Virtual Desktop | Microsoft Partner - Mar 4, 2025 - 11:55:56 AM
Virtual Desktop Readiness Resources | Microsoft Partner
Category

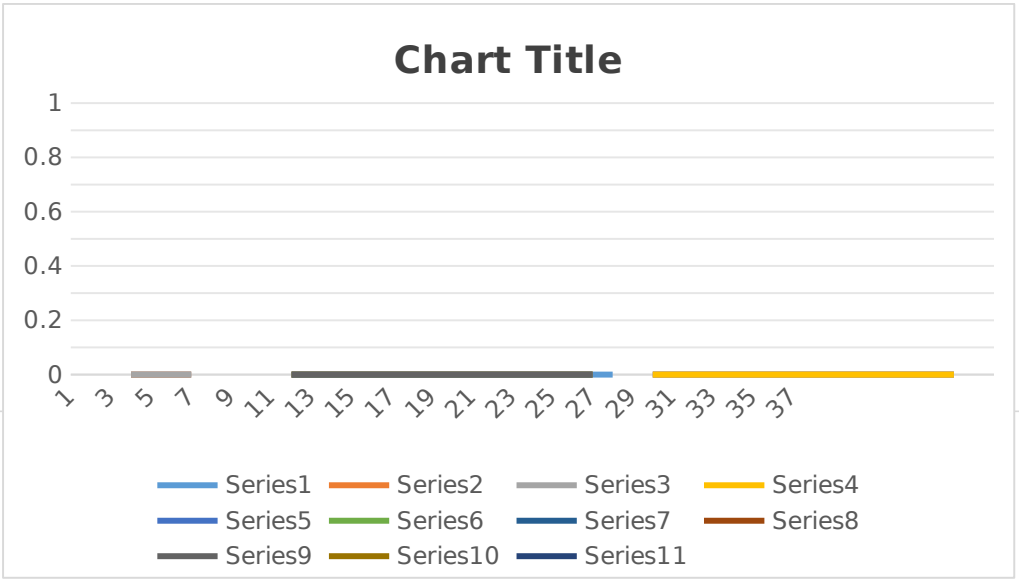


Chart Title
1
0.8
0.6
0.4
0.2
0
1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33 35 37
Series1
Series2
Series3
Series4
Series5
Series6
Series7
Series8
Series9
Series10
Series11

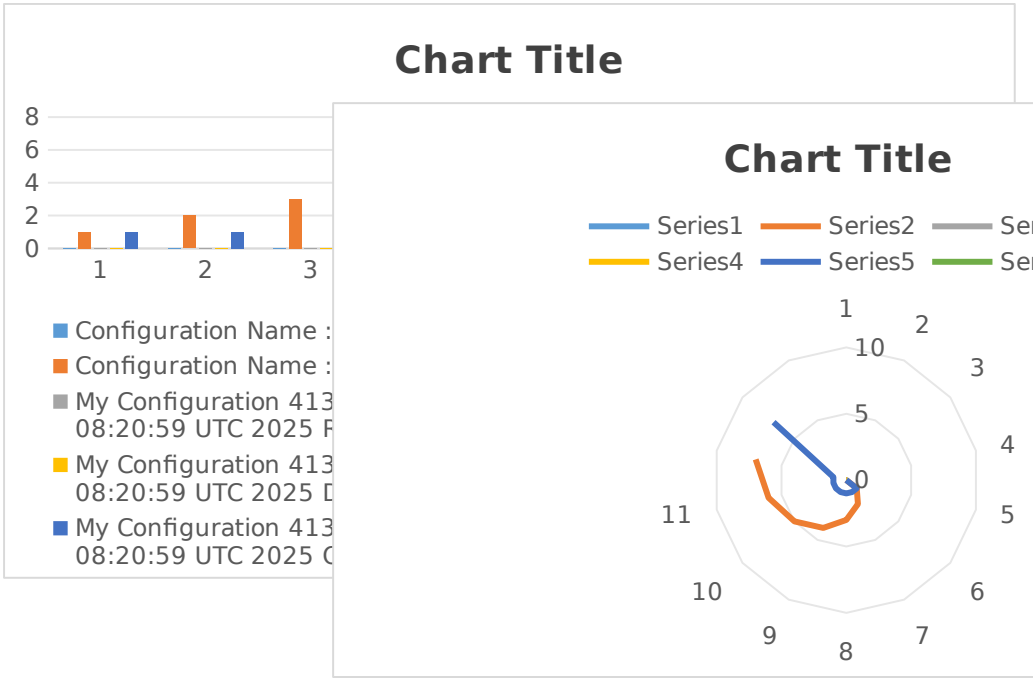


Chart Title
8
6
4
2
0
1
2
3
Configuration Name :
Configuration Name :
My Configuration 413
08:20:59 UTC 2025 F
My Configuration 413
08:20:59 UTC 2025 D
My Configuration 413
08:20:59 UTC 2025 C
Chart Title
Series1
Series2
Series3
Series4
Series5
Series6
1
2
3
4
5
6
7
8
9
10
11
10
5
0

succeeded Jan 18, 2025 in 18s

6s

Current runner version: '2.321.0'

Operating System

Runner Image

Runner Image Provisioner

GITHUB_TOKEN Permissions

Secret source: Actions

Prepare workflow directory

Prepare all required actions

Getting action download info

Download action repository 'actions/checkout@v2'
(SHA:ee0669bd1cc54295c223e0bb666b733df41de1c5)

Download action repository 'shundor/python-bandit-
scan@9cc5aa4a006482b8a7f91134412df6772dbda22c'
(SHA:9cc5aa4a006482b8a7f91134412df6772dbda22c)

Getting action download info

Download action repository 'actions/upload-artifact@main'
(SHA:65c4c4a1ddee5b72f698fdd19549f0f0fb45cf08)

Download action repository 'github/codeql-action@v2'
(SHA:b8d3b6e8af63cde30bdc382c0bc28114f4346c88)

Complete job name: bandit

1s

Run actions/checkout@v2

Syncing repository: Kananga5/engineering-workbase-tshing-pratical-batch-

Getting Git version info

Temporarily overriding HOME='/home/runner/work/_temp/d097deb1-71b1-46f0-
aaeb-f21540e582e1' before making global git config changes

Adding repository directory to the temporary git global config as a safe directory

/usr/bin/git config --global --add safe.directory /home/runner/work/engineering-
workbase-tshing-

to me,
tshigombekb

Current runner version: '2.322.0'
Operating System
Runner Image
Runner Image Provisioner
GITHUB_TOKEN Permissions
Secret source: Actions
Prepare workflow directory

Prepare all required actions
Getting action download info
Download action repository 'actions/checkout@v4'
(SHA:11bd71901bbe5b1630ceea73d27597364c9af683)
Complete job name: build
14s
Run actions/checkout@v4
Syncing repository: Kananga5/experimental-career-work-master-thesis-atlantic-
Getting Git version info
Temporarily overriding HOME='/home/runner/work/_temp/fdd2df08-9e8d-4ede-b2e5-a892571defff' before making global git config changes
Adding repository directory to the temporary git global config as a safe directory
/usr/bin/git config --global --add safe.directory /home/runner/work/experimental-career-work-master-thesis-atlantic-/experimental-career-work-master-thesis-atlantic-
Deleting the contents of '/home/runner/work/experimental-career-work-master-thesis-atlantic-/experimental-career-work-master-thesis-atlantic-'
Initializing the repository
Disabling automatic garbage collection
Setting up auth
Fetching the repository
Determining the checkout info
/usr/bin/git sparse-checkout disable
/usr/bin/git config --local --unset-all extensions.worktreeConfig
Checking out the ref
/usr/bin/git log -1 --format=%H
b341f5d76b3e7dcd2bb10edc91a6af2874152e10
0s
Run echo Hello, world!
Hello, world!
0s
Run echo Add other actions to build,
Add other actions to build,
test, and deploy your project.
0s
Post job cleanup.
/usr/bin/git version
git version 2.48.1
Temporarily overriding HOME='/home/runner/work/_temp/f3fc4178-4e0d-420c-9144-a0e1ca56200a' before making global git config changes
Adding repository directory to the temporary git global config as a safe directory
/usr/bin/git config --global --add safe.directory /home/runner/work/experimental-career-work-master-thesis-atlantic-/experimental-career-work-master-thesis-atlantic-
/usr/bin/git config --local --name-only --get-regexp core\.sshCommand
/usr/bin/git submodule foreach --recursive sh -c "git config --local --name-only --get-regexp 'core\.sshCommand' && git config --local --unset-all 'core.sshCommand' || :"
/usr/bin/git config --local --name-only --get-regexp http\.https\:\/\/github\.com\/\.extraheader
http.https://github.com/.extraheader
/usr/bin/git config --local --unset-all http.https://github.com/.extraheader
/usr/bin/git submodule foreach --recursive sh -c "git config --local --name-only --get-regexp 'http\.https\:\/\/github\.com\/\.extraheader' && git config --local --unset-all 'http.https://github.com/.extraheader' || :"

0s
Cleaning up orphan processes

engineering security management system #4

-

Codacy Security Scan
succeeded Feb 27, 2025 in 48s

7s
Current runner version: '2.322.0'
Operating System
Runner Image
Runner Image Provisioner
GITHUB_TOKEN Permissions
Secret source: Actions
Prepare workflow directory
Prepare all required actions
Getting action download info
Download action repository 'actions/checkout@v4'
(SHA:11bd71901bbe5b1630ceea73d27597364c9af683)
Download action repository 'codacy/codacy-analysis-cli-
action@d840f886c4bd4edc059706d09c6a1586111c540b'
(SHA:d840f886c4bd4edc059706d09c6a1586111c540b)
Download action repository 'github/codeql-action@v3'
(SHA:b56ba49b26e50535fa1e7f7db0f4f7b4bf65d80d)
Complete job name: Codacy Security Scan
9s
Run actions/checkout@v4
Syncing repository: Kananga5/experimental-career-work-master-thesis-atlantic-
Getting Git version info
Temporarily overriding HOME='/home/runner/work/_temp/6b755638-a1a8-4eb6-9f5c-
3f900b44407b' before making global git config changes
Adding repository directory to the temporary git global config as a safe directory
/usr/bin/git config --global --add safe.directory /home/runner/work/experimental-career-
work-master-thesis-atlantic-/experimental-career-work-master-thesis-atlantic-
Deleting the contents of '/home/runner/work/experimental-career-work-master-thesis-
atlantic-/experimental-career-work-master-thesis-atlantic-'
Initializing the repository
Disabling automatic garbage collection
Setting up auth
Fetching the repository
Determining the checkout info
/usr/bin/git sparse-checkout disable
/usr/bin/git config --local --unset-all extensions.worktreeConfig
Checking out the ref
/usr/bin/git log -1 --format=%H
b341f5d76b3e7dcd2bb10edc91a6af2874152e10
22s

Run codacy/codacy-analysis-cli-action@d840f886c4bd4edc059706d09c6a1586111c540b
Run echo "CODACY_ANALYSIS_CLI_VERSION=4.0.0" >> $GITHUB_ENV
Run echo "CLI_SCRIPT_PATH=/home/runner/work/_actions/codacy/codacy-analysis-cli-action/d840f886c4bd4edc059706d09c6a1586111c540b/codacy-analysis-cli.sh" >> $GITHUB_ENV
Run wget -O - https://raw.githubusercontent.com/codacy/codacy-analysis-cli/4.0.0/bin/codacy-analysis-cli.sh > /home/runner/work/_actions/codacy/codacy-analysis-cli-action/d840f886c4bd4edc059706d09c6a1586111c540b/codacy-analysis-cli.sh
--2025-02-27 12:18:34-- https://raw.githubusercontent.com/codacy/codacy-analysis-cli/4.0.0/bin/codacy-analysis-cli.sh
Resolving raw.githubusercontent.com (raw.githubusercontent.com)... 185.199.108.133, 185.199.110.133, 185.199.109.133, ...
Connecting to raw.githubusercontent.com (raw.githubusercontent.com)|185.199.108.133|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 3107 (3.0K) [text/plain]
Saving to: ‘STDOUT’
0K ... 100% 44.0M=0s
2025-02-27 12:18:34 (44.0 MB/s) - written to stdout [3107/3107]
Run chmod +x /home/runner/work/_actions/codacy/codacy-analysis-cli-action/d840f886c4bd4edc059706d09c6a1586111c540b/codacy-analysis-cli.sh
Run /home/runner/work/_actions/codacy/codacy-analysis-cli-action/d840f886c4bd4edc059706d09c6a1586111c540b/codacy-analysis-cli.sh analyze $(if [true = true]; then echo "--verbose"; fi) $(if [ ]; then echo "--project-token "; fi) $(if [ ]; then echo "--codacy-api-base-url "; fi) $(if [sarif]; then echo "--format sarif"; fi) $(if [results.sarif]; then echo "--output results.sarif"; fi) $(if [ ]; then echo "--directory "; fi) $(if [ ]; then echo "--parallel "; fi) $(if [2147483647]; then echo "--max-allowed-issues 2147483647"; fi) $(if [ ]; then echo "--tool "; fi) $(if [ ]; then echo "--tool-timeout "; fi) $(if [= true]; then echo "--upload"; fi) $(if [= true]; then echo "--fail-if-incomplete"; fi) $(if [= true]; then echo "--allow-network"; fi) $(if [= true]; then echo "--force-file-permissions"; fi) $(if [true = true]; then echo "--gh-code-scanning-compat"; fi)
/home/runner/work/_temp/9f968dbd-ee66-48cc-aff8-4edbbb3128b3.sh: line 1: [: =: unary operator expected
/home/runner/work/_temp/9f968dbd-ee66-48cc-aff8-4edbbb3128b3.sh: line 1: [: =: unary operator expected
/home/runner/work/_temp/9f968dbd-ee66-48cc-aff8-4edbbb3128b3.sh: line 1: [: =: unary operator expected
/home/runner/work/_temp/9f968dbd-ee66-48cc-aff8-4edbbb3128b3.sh: line 1: [: =: unary operator expected
Unable to find image 'codacy/codacy-analysis-cli:4.0.0' locally
4.0.0: Pulling from codacy/codacy-analysis-cli
e7c96db7181b: Pulling fs layer
f910a506b6cb: Pulling fs layer
b6abafe80f63: Pulling fs layer
1811036e9141: Pulling fs layer
6314bc44cdf3: Pulling fs layer
8eac012f9da4: Pulling fs layer
6314bc44cdf3: Waiting
1811036e9141: Waiting

8eac012f9da4: Waiting
f910a506b6cb: Verifying Checksum
f910a506b6cb: Download complete
e7c96db7181b: Verifying Checksum
e7c96db7181b: Download complete
e7c96db7181b: Pull complete
6314bc44cdf3: Verifying Checksum
6314bc44cdf3: Download complete
b6abafe80f63: Verifying Checksum
b6abafe80f63: Download complete
f910a506b6cb: Pull complete
1811036e9141: Verifying Checksum
1811036e9141: Download complete
8eac012f9da4: Verifying Checksum
8eac012f9da4: Download complete
b6abafe80f63: Pull complete
1811036e9141: Pull complete
6314bc44cdf3: Pull complete
8eac012f9da4: Pull complete
Digest:
sha256:4e563da124426918287e6ca75e80396264f4304b4a971c601099029bf89f9bcb
Status: Downloaded newer image for codacy/codacy-analysis-cli:4.0.0
02/27 12:18:41 DEBUG o.e.j.i.s.file.FileSnapshot:272 -
file=/home/runner/work/experimental-career-work-master-thesis-atlantic-/experimental-career-work-master-thesis-atlantic-/.git/config, create new FileSnapshot: lastRead=2025-02-27 12:18:41.984000000, lastModified=2025-02-27 12:18:34.000000000, size=454, fileKey=(dev=801,ino=795414)
02/27 12:18:41 DEBUG o.e.j.i.s.file.FileSnapshot:513 - file=/root/.config/jgit/config.lock, isRacyClean=true, read=2025-02-27 12:18:41.890000000, lastModified=2025-02-27 12:18:41.000000000, delta=890000000 ns, racy<=1251250000 ns
02/27 12:18:41 DEBUG o.e.j.i.s.file.FileSnapshot:564 - file=/root/.config/jgit/config.lock, is racily clean
02/27 12:18:41 DEBUG o.e.jgit.util.SystemReader:432 - loading config FileBasedConfig[/root/.config/jgit/config]
02/27 12:18:41 DEBUG o.e.j.i.s.file.FileSnapshot:272 - file=/root/.config/jgit/config, create new FileSnapshot: lastRead=2025-02-27 12:18:41.993000000, lastModified=2025-02-27 12:18:41.000000000, size=131, fileKey=(dev=2e,ino=4475043)
02/27 12:18:41 DEBUG o.e.j.i.s.file.FileSnapshot:513 - file=/root/.config/jgit/config.lock, isRacyClean=true, read=2025-02-27 12:18:41.993000000, lastModified=2025-02-27 12:18:41.000000000, delta=993000000 ns, racy<=1251250000 ns
02/27 12:18:41 DEBUG o.e.j.i.s.file.FileSnapshot:513 - file=/root/.gitconfig, isRacyClean=false, read=2025-02-27 12:18:41.357000000, lastModified=1970-01-01 00:00:00.000000000, delta=1740658721357000000 ns, racy<=2500000000 ns
02/27 12:18:41 DEBUG o.e.j.i.s.file.FileSnapshot:557 - file=/root/.gitconfig, is unmodified
02/27 12:18:41 DEBUG o.e.j.i.s.file.FileSnapshot:272 -
file=/home/runner/work/experimental-career-work-master-thesis-atlantic-/experimental-career-work-master-thesis-atlantic-/.git/config, create new FileSnapshot: lastRead=2025-02-27 12:18:41.994000000, lastModified=2025-02-27 12:18:34.000000000, size=454, fileKey=(dev=801,ino=795414)
02/27 12:18:41 DEBUG o.e.j.i.s.file.FileSnapshot:513 - file=/root/.config/jgit/config.lock, isRacyClean=true, read=2025-02-27 12:18:41.993000000, lastModified=2025-02-27

12:18:41.000000000, delta=993000000 ns, racy<=1251250000 ns
02/27 12:18:41 DEBUG o.e.j.i.s.file.FileSnapshot:564 - file=/root/.config/jgit/config.lock, is racily clean
02/27 12:18:41 DEBUG o.e.jgit.util.SystemReader:432 - loading config FileBasedConfig[/root/.config/jgit/config]
02/27 12:18:41 DEBUG o.e.j.i.s.file.FileSnapshot:272 - file=/root/.config/jgit/config, create new FileSnapshot: lastRead=2025-02-27 12:18:41.995000000, lastModified=2025-02-27 12:18:41.000000000, size=131, fileKey=(dev=2e,ino=4475043)
02/27 12:18:41 DEBUG o.e.j.i.s.file.FileSnapshot:513 - file=/root/.config/jgit/config.lock, isRacyClean=true, read=2025-02-27 12:18:41.995000000, lastModified=2025-02-27 12:18:41.000000000, delta=995000000 ns, racy<=1251250000 ns
02/27 12:18:41 DEBUG o.e.j.i.s.file.FileSnapshot:513 - file=/root/.gitconfig, isRacyClean=false, read=2025-02-27 12:18:41.357000000, lastModified=1970-01-01 00:00:00.000000000, delta=1740658721357000000 ns, racy<=2500000000 ns
02/27 12:18:41 DEBUG o.e.j.i.s.file.FileSnapshot:557 - file=/root/.gitconfig, is unmodified
02/27 12:18:41 DEBUG o.e.j.i.s.file.FileSnapshot:513 - file=/home/runner/work/experimental-career-work-master-thesis-atlantic-/experimental-career-work-master-thesis-atlantic-/.git/config, isRacyClean=false, read=2025-02-27 12:18:41.994000000, lastModified=2025-02-27 12:18:34.000000000, delta=7994000000 ns, racy<=2500000000 ns
02/27 12:18:41 DEBUG o.e.j.i.s.file.FileSnapshot:557 - file=/home/runner/work/experimental-career-work-master-thesis-atlantic-/experimental-career-work-master-thesis-atlantic-/.git/config, is unmodified
02/27 12:18:41 DEBUG o.e.j.i.s.file.FileSnapshot:272 - file=/home/runner/work/experimental-career-work-master-thesis-atlantic-/experimental-career-work-master-thesis-atlantic-/.git/index, create new FileSnapshot: lastRead=2025-02-27 12:18:41.997000000, lastModified=2025-02-27 12:18:34.000000000, size=3364, fileKey=(dev=801,ino=795413)
02/27 12:18:41 DEBUG o.e.j.i.s.file.FileSnapshot:272 - file=/home/runner/work/experimental-career-work-master-thesis-atlantic-/experimental-career-work-master-thesis-atlantic-/.git/config, create new FileSnapshot: lastRead=2025-02-27 12:18:41.998000000, lastModified=2025-02-27 12:18:34.000000000, size=454, fileKey=(dev=801,ino=795414)
02/27 12:18:41 DEBUG o.e.j.i.s.file.FileSnapshot:513 - file=/root/.config/jgit/config.lock, isRacyClean=true, read=2025-02-27 12:18:41.995000000, lastModified=2025-02-27 12:18:41.000000000, delta=995000000 ns, racy<=1251250000 ns
02/27 12:18:41 DEBUG o.e.j.i.s.file.FileSnapshot:564 - file=/root/.config/jgit/config.lock, is racily clean
02/27 12:18:41 DEBUG o.e.jgit.util.SystemReader:432 - loading config FileBasedConfig[/root/.config/jgit/config]
02/27 12:18:41 DEBUG o.e.j.i.s.file.FileSnapshot:272 - file=/root/.config/jgit/config, create new FileSnapshot: lastRead=2025-02-27 12:18:41.999000000, lastModified=2025-02-27 12:18:41.000000000, size=131, fileKey=(dev=2e,ino=4475043)
02/27 12:18:42 DEBUG o.e.j.i.s.file.FileSnapshot:513 - file=/root/.config/jgit/config.lock, isRacyClean=true, read=2025-02-27 12:18:41.999000000, lastModified=2025-02-27 12:18:41.000000000, delta=999000000 ns, racy<=1251250000 ns
02/27 12:18:42 DEBUG o.e.j.i.s.file.FileSnapshot:513 - file=/root/.gitconfig, isRacyClean=false, read=2025-02-27 12:18:41.357000000, lastModified=1970-01-01 00:00:00.000000000, delta=1740658721357000000 ns, racy<=2500000000 ns
02/27 12:18:42 DEBUG o.e.j.i.s.file.FileSnapshot:557 - file=/root/.gitconfig, is unmodified
02/27 12:18:42 DEBUG o.e.j.i.s.file.FileSnapshot:272 -

file=/home/runner/work/experimental-career-work-master-thesis-atlantic-/experimental-career-work-master-thesis-atlantic-/.git/config, create new FileSnapshot: lastRead=2025-02-27 12:18:42.000000000, lastModified=2025-02-27 12:18:34.000000000, size=454, fileKey=(dev=801,ino=795414)
02/27 12:18:42 DEBUG o.e.j.i.s.file.FileSnapshot:513 - file=/root/.config/jgit/config.lock, isRacyClean=true, read=2025-02-27 12:18:41.999000000, lastModified=2025-02-27 12:18:41.000000000, delta=999000000 ns, racy<=1251250000 ns
02/27 12:18:42 DEBUG o.e.j.i.s.file.FileSnapshot:564 - file=/root/.config/jgit/config.lock, is racily clean
02/27 12:18:42 DEBUG o.e.jgit.util.SystemReader:432 - loading config FileBasedConfig[/root/.config/jgit/config]
02/27 12:18:42 DEBUG o.e.j.i.s.file.FileSnapshot:272 - file=/root/.config/jgit/config, create new FileSnapshot: lastRead=2025-02-27 12:18:42.002000000, lastModified=2025-02-27 12:18:41.000000000, size=131, fileKey=(dev=2e,ino=4475043)
02/27 12:18:42 DEBUG o.e.j.i.s.file.FileSnapshot:513 - file=/root/.config/jgit/config.lock, isRacyClean=true, read=2025-02-27 12:18:42.002000000, lastModified=2025-02-27 12:18:41.000000000, delta=1002000000 ns, racy<=1251250000 ns
02/27 12:18:42 DEBUG o.e.j.i.s.file.FileSnapshot:513 - file=/root/.gitconfig, isRacyClean=false, read=2025-02-27 12:18:41.357000000, lastModified=1970-01-01 00:00:00.000000000, delta=1740658721357000000 ns, racy<=2500000000 ns
02/27 12:18:42 DEBUG o.e.j.i.s.file.FileSnapshot:557 - file=/root/.gitconfig, is unmodified
02/27 12:18:42 DEBUG o.e.j.i.s.file.FileSnapshot:513 - file=/home/runner/work/experimental-career-work-master-thesis-atlantic-/experimental-career-work-master-thesis-atlantic-/.git/config, isRacyClean=false, read=2025-02-27 12:18:42.000000000, lastModified=2025-02-27 12:18:34.000000000, delta=8000000000 ns, racy<=2500000000 ns
02/27 12:18:42 DEBUG o.e.j.i.s.file.FileSnapshot:557 - file=/home/runner/work/experimental-career-work-master-thesis-atlantic-/experimental-career-work-master-thesis-atlantic-/.git/config, is unmodified
02/27 12:18:42 DEBUG o.e.j.i.s.file.FileSnapshot:272 - file=/home/runner/work/experimental-career-work-master-thesis-atlantic-/experimental-career-work-master-thesis-atlantic-/.git/index, create new FileSnapshot: lastRead=2025-02-27 12:18:42.003000000, lastModified=2025-02-27 12:18:34.000000000, size=3364, fileKey=(dev=801,ino=795413)
02/27 12:18:42 DEBUG o.e.j.i.s.file.FileSnapshot:513 - file=/root/.config/jgit/config.lock, isRacyClean=true, read=2025-02-27 12:18:42.002000000, lastModified=2025-02-27 12:18:41.000000000, delta=1002000000 ns, racy<=1251250000 ns
02/27 12:18:42 DEBUG o.e.j.i.s.file.FileSnapshot:564 - file=/root/.config/jgit/config.lock, is racily clean
02/27 12:18:42 DEBUG o.e.jgit.util.SystemReader:432 - loading config FileBasedConfig[/root/.config/jgit/config]
02/27 12:18:42 DEBUG o.e.j.i.s.file.FileSnapshot:272 - file=/root/.config/jgit/config, create new FileSnapshot: lastRead=2025-02-27 12:18:42.012000000, lastModified=2025-02-27 12:18:41.000000000, size=131, fileKey=(dev=2e,ino=4475043)
02/27 12:18:42 DEBUG o.e.j.i.s.file.FileSnapshot:513 - file=/root/.config/jgit/config.lock, isRacyClean=true, read=2025-02-27 12:18:42.012000000, lastModified=2025-02-27 12:18:41.000000000, delta=1012000000 ns, racy<=1251250000 ns
02/27 12:18:42 DEBUG o.e.j.i.s.file.FileSnapshot:513 - file=/root/.gitconfig, isRacyClean=false, read=2025-02-27 12:18:41.357000000, lastModified=1970-01-01 00:00:00.000000000, delta=1740658721357000000 ns, racy<=2500000000 ns
02/27 12:18:42 DEBUG o.e.j.i.s.file.FileSnapshot:557 - file=/root/.gitconfig, is unmodified

02/27 12:18:42 DEBUG o.e.j.i.s.file.FileSnapshot:513 - file=/home/runner/work/experimental-career-work-master-thesis-atlantic-/experimental-career-work-master-thesis-atlantic-/.git/config, isRacyClean=false, read=2025-02-27 12:18:42.000000000, lastModified=2025-02-27 12:18:34.000000000, delta=8000000000 ns, racy<=2500000000 ns
02/27 12:18:42 DEBUG o.e.j.i.s.file.FileSnapshot:557 - file=/home/runner/work/experimental-career-work-master-thesis-atlantic-/experimental-career-work-master-thesis-atlantic-/.git/config, is unmodified
02/27 12:18:42 DEBUG o.e.j.i.s.file.FileSnapshot:513 - file=/root/.config/jgit/config.lock, isRacyClean=true, read=2025-02-27 12:18:42.012000000, lastModified=2025-02-27 12:18:41.000000000, delta=1012000000 ns, racy<=1251250000 ns
02/27 12:18:42 DEBUG o.e.j.i.s.file.FileSnapshot:564 - file=/root/.config/jgit/config.lock, is racily clean
02/27 12:18:42 DEBUG o.e.jgit.util.SystemReader:432 - loading config FileBasedConfig[/root/.config/jgit/config]
02/27 12:18:42 DEBUG o.e.j.i.s.file.FileSnapshot:272 - file=/root/.config/jgit/config, create new FileSnapshot: lastRead=2025-02-27 12:18:42.017000000, lastModified=2025-02-27 12:18:41.000000000, size=131, fileKey=(dev=2e,ino=4475043)
02/27 12:18:42 DEBUG o.e.j.i.s.file.FileSnapshot:513 - file=/root/.config/jgit/config.lock, isRacyClean=true, read=2025-02-27 12:18:42.017000000, lastModified=2025-02-27 12:18:41.000000000, delta=1017000000 ns, racy<=1251250000 ns
02/27 12:18:42 DEBUG o.e.j.i.s.file.FileSnapshot:513 - file=/root/.gitconfig, isRacyClean=false, read=2025-02-27 12:18:41.357000000, lastModified=1970-01-01 00:00:00.000000000, delta=1740658721357000000 ns, racy<=2500000000 ns
02/27 12:18:42 DEBUG o.e.j.i.s.file.FileSnapshot:557 - file=/root/.gitconfig, is unmodified
02/27 12:18:42 DEBUG o.e.j.i.s.file.FileSnapshot:513 - file=/home/runner/work/experimental-career-work-master-thesis-atlantic-/experimental-career-work-master-thesis-atlantic-/.git/config, isRacyClean=false, read=2025-02-27 12:18:42.000000000, lastModified=2025-02-27 12:18:34.000000000, delta=8000000000 ns, racy<=2500000000 ns
02/27 12:18:42 DEBUG o.e.j.i.s.file.FileSnapshot:557 - file=/home/runner/work/experimental-career-work-master-thesis-atlantic-/experimental-career-work-master-thesis-atlantic-/.git/config, is unmodified
02/27 12:18:42 DEBUG o.e.j.i.s.file.FileSnapshot:513 - file=/root/.config/jgit/config.lock, isRacyClean=true, read=2025-02-27 12:18:42.017000000, lastModified=2025-02-27 12:18:41.000000000, delta=1017000000 ns, racy<=1251250000 ns
02/27 12:18:42 DEBUG o.e.j.i.s.file.FileSnapshot:564 - file=/root/.config/jgit/config.lock, is racily clean
02/27 12:18:42 DEBUG o.e.jgit.util.SystemReader:432 - loading config FileBasedConfig[/root/.config/jgit/config]
02/27 12:18:42 DEBUG o.e.j.i.s.file.FileSnapshot:272 - file=/root/.config/jgit/config, create new FileSnapshot: lastRead=2025-02-27 12:18:42.027000000, lastModified=2025-02-27 12:18:41.000000000, size=131, fileKey=(dev=2e,ino=4475043)
02/27 12:18:42 DEBUG o.e.j.i.s.file.FileSnapshot:513 - file=/root/.config/jgit/config.lock, isRacyClean=true, read=2025-02-27 12:18:42.027000000, lastModified=2025-02-27 12:18:41.000000000, delta=1027000000 ns, racy<=1251250000 ns
02/27 12:18:42 DEBUG o.e.j.i.s.file.FileSnapshot:513 - file=/root/.gitconfig, isRacyClean=false, read=2025-02-27 12:18:41.357000000, lastModified=1970-01-01 00:00:00.000000000, delta=1740658721357000000 ns, racy<=2500000000 ns
02/27 12:18:42 DEBUG o.e.j.i.s.file.FileSnapshot:557 - file=/root/.gitconfig, is unmodified
02/27 12:18:42 DEBUG o.e.j.i.s.file.FileSnapshot:513 -

file=/home/runner/work/experimental-career-work-master-thesis-atlantic-/experimental-career-work-master-thesis-atlantic-/.git/config, isRacyClean=false, read=2025-02-27 12:18:42.000000000, lastModified=2025-02-27 12:18:34.000000000, delta=8000000000 ns, racy<=2500000000 ns
02/27 12:18:42 DEBUG o.e.j.i.s.file.FileSnapshot:557 - file=/home/runner/work/experimental-career-work-master-thesis-atlantic-/experimental-career-work-master-thesis-atlantic-/.git/config, is unmodified
02/27 12:18:42 DEBUG o.e.j.i.s.file.FileSnapshot:272 - file=/home/runner/work/experimental-career-work-master-thesis-atlantic-/experimental-career-work-master-thesis-atlantic-/.git/HEAD, create new FileSnapshot: lastRead=2025-02-27 12:18:42.029000000, lastModified=2025-02-27 12:18:34.000000000, size=21, fileKey=(dev=801,ino=795450)
02/27 12:18:42 DEBUG o.e.j.i.s.file.FileSnapshot:272 - file=/home/runner/work/experimental-career-work-master-thesis-atlantic-/experimental-career-work-master-thesis-atlantic-/.git/refs/heads/main, create new FileSnapshot: lastRead=2025-02-27 12:18:42.030000000, lastModified=2025-02-27 12:18:34.000000000, size=41, fileKey=(dev=801,ino=795447)
02/27 12:18:42 DEBUG o.e.j.i.s.file.FileSnapshot:513 - file=/root/.config/jgit/config.lock, isRacyClean=true, read=2025-02-27 12:18:42.027000000, lastModified=2025-02-27 12:18:41.000000000, delta=1027000000 ns, racy<=1251250000 ns
02/27 12:18:42 DEBUG o.e.j.i.s.file.FileSnapshot:564 - file=/root/.config/jgit/config.lock, is racily clean
02/27 12:18:42 DEBUG o.e.jgit.util.SystemReader:432 - loading config FileBasedConfig[/root/.config/jgit/config]
02/27 12:18:42 DEBUG o.e.j.i.s.file.FileSnapshot:272 - file=/root/.config/jgit/config, create new FileSnapshot: lastRead=2025-02-27 12:18:42.031000000, lastModified=2025-02-27 12:18:41.000000000, size=131, fileKey=(dev=2e,ino=4475043)
02/27 12:18:42 DEBUG o.e.j.i.s.file.FileSnapshot:513 - file=/root/.config/jgit/config.lock, isRacyClean=true, read=2025-02-27 12:18:42.031000000, lastModified=2025-02-27 12:18:41.000000000, delta=1031000000 ns, racy<=1251250000 ns
02/27 12:18:42 DEBUG o.e.j.i.s.file.FileSnapshot:513 - file=/root/.gitconfig, isRacyClean=false, read=2025-02-27 12:18:41.357000000, lastModified=1970-01-01 00:00:00.000000000, delta=1740658721357000000 ns, racy<=2500000000 ns
02/27 12:18:42 DEBUG o.e.j.i.s.file.FileSnapshot:557 - file=/root/.gitconfig, is unmodified
02/27 12:18:42 DEBUG o.e.j.i.s.file.FileSnapshot:513 - file=/home/runner/work/experimental-career-work-master-thesis-atlantic-/experimental-career-work-master-thesis-atlantic-/.git/config, isRacyClean=false, read=2025-02-27 12:18:42.000000000, lastModified=2025-02-27 12:18:34.000000000, delta=8000000000 ns, racy<=2500000000 ns
02/27 12:18:42 DEBUG o.e.j.i.s.file.FileSnapshot:557 - file=/home/runner/work/experimental-career-work-master-thesis-atlantic-/experimental-career-work-master-thesis-atlantic-/.git/config, is unmodified
02/27 12:18:42 DEBUG o.e.j.i.s.file.FileSnapshot:513 - file=/home/runner/work/experimental-career-work-master-thesis-atlantic-/experimental-career-work-master-thesis-atlantic-/.git/HEAD, isRacyClean=false, read=2025-02-27 12:18:42.029000000, lastModified=2025-02-27 12:18:34.000000000, delta=8029000000 ns, racy<=1251250000 ns
02/27 12:18:42 DEBUG o.e.j.i.s.file.FileSnapshot:557 - file=/home/runner/work/experimental-career-work-master-thesis-atlantic-/experimental-career-work-master-thesis-atlantic-/.git/HEAD, is unmodified
02/27 12:18:42 DEBUG o.e.j.i.s.file.FileSnapshot:513 -

file=/home/runner/work/experimental-career-work-master-thesis-atlantic-/experimental-career-work-master-thesis-atlantic-/.git/refs/heads/main, isRacyClean=false, read=2025-02-27 12:18:42.030000000, lastModified=2025-02-27 12:18:34.000000000, delta=8030000000 ns, racy<=1251250000 ns
02/27 12:18:42 DEBUG o.e.j.i.s.file.FileSnapshot:557 - file=/home/runner/work/experimental-career-work-master-thesis-atlantic-/experimental-career-work-master-thesis-atlantic-/.git/refs/heads/main, is unmodified
02/27 12:18:42 DEBUG o.e.j.i.s.file.FileSnapshot:581 - file=null, size changed from -1 to 4096 bytes
02/27 12:18:42 DEBUG o.e.j.i.s.file.FileSnapshot:272 - file=/home/runner/work/experimental-career-work-master-thesis-atlantic-/experimental-career-work-master-thesis-atlantic-/.git/objects/pack, create new FileSnapshot: lastRead=2025-02-27 12:18:42.034000000, lastModified=2025-02-27 12:18:26.000000000, size=4096, fileKey=(dev=801,ino=795223)
02/27 12:18:42 DEBUG o.e.j.i.s.file.FileSnapshot:513 - file=/home/runner/work/experimental-career-work-master-thesis-atlantic-/experimental-career-work-master-thesis-atlantic-/.git/objects/pack, isRacyClean=false, read=2025-02-27 12:18:42.034000000, lastModified=2025-02-27 12:18:26.000000000, delta=16034000000 ns, racy<=1251250000 ns
02/27 12:18:42 DEBUG o.e.j.i.s.file.FileSnapshot:557 - file=/home/runner/work/experimental-career-work-master-thesis-atlantic-/experimental-career-work-master-thesis-atlantic-/.git/objects/pack, is unmodified
02/27 12:18:42 DEBUG o.e.j.i.s.file.FileSnapshot:581 - file=null, size changed from -1 to 41 bytes
02/27 12:18:42 DEBUG o.e.j.i.s.file.FileSnapshot:272 - file=/home/runner/work/experimental-career-work-master-thesis-atlantic-/experimental-career-work-master-thesis-atlantic-/.git/shallow, create new FileSnapshot: lastRead=2025-02-27 12:18:42.036000000, lastModified=2025-02-27 12:18:27.000000000, size=41, fileKey=(dev=801,ino=795156)
02/27 12:18:42 DEBUG o.e.j.i.s.file.FileSnapshot:513 - file=/home/runner/work/experimental-career-work-master-thesis-atlantic-/experimental-career-work-master-thesis-atlantic-/.git/objects/pack, isRacyClean=false, read=2025-02-27 12:18:42.034000000, lastModified=2025-02-27 12:18:26.000000000, delta=16034000000 ns, racy<=1251250000 ns
02/27 12:18:42 DEBUG o.e.j.i.s.file.FileSnapshot:557 - file=/home/runner/work/experimental-career-work-master-thesis-atlantic-/experimental-career-work-master-thesis-atlantic-/.git/objects/pack, is unmodified
02/27 12:18:42 DEBUG o.e.j.i.s.file.FileSnapshot:272 - file=/home/runner/work/experimental-career-work-master-thesis-atlantic-/experimental-career-work-master-thesis-atlantic-/.git/index, create new FileSnapshot: lastRead=2025-02-27 12:18:42.039000000, lastModified=2025-02-27 12:18:34.000000000, size=3364, fileKey=(dev=801,ino=795413)
02/27 12:18:42 DEBUG o.e.j.i.s.file.FileSnapshot:272 - file=/home/runner/work/experimental-career-work-master-thesis-atlantic-/experimental-career-work-master-thesis-atlantic-/.git/index, create new FileSnapshot: lastRead=2025-02-27 12:18:42.042000000, lastModified=2025-02-27 12:18:34.000000000, size=3364, fileKey=(dev=801,ino=795413)
02/27 12:18:42 DEBUG o.e.j.i.s.file.FileSnapshot:513 - file=/root/.config/jgit/config.lock, isRacyClean=true, read=2025-02-27 12:18:42.031000000, lastModified=2025-02-27 12:18:41.000000000, delta=1031000000 ns, racy<=1251250000 ns
02/27 12:18:42 DEBUG o.e.j.i.s.file.FileSnapshot:564 - file=/root/.config/jgit/config.lock, is

racily clean
02/27 12:18:42 DEBUG o.e.jgit.util.SystemReader:432 - loading config FileBasedConfig[/root/.config/jgit/config]
02/27 12:18:42 DEBUG o.e.j.i.s.file.FileSnapshot:272 - file=/root/.config/jgit/config, create new FileSnapshot: lastRead=2025-02-27 12:18:42.044000000, lastModified=2025-02-27 12:18:41.000000000, size=131, fileKey=(dev=2e,ino=4475043)
02/27 12:18:42 DEBUG o.e.j.i.s.file.FileSnapshot:513 - file=/root/.config/jgit/config.lock, isRacyClean=true, read=2025-02-27 12:18:42.044000000, lastModified=2025-02-27 12:18:41.000000000, delta=1044000000 ns, racy<=1251250000 ns
02/27 12:18:42 DEBUG o.e.j.i.s.file.FileSnapshot:513 - file=/root/.gitconfig, isRacyClean=false, read=2025-02-27 12:18:41.357000000, lastModified=1970-01-01 00:00:00.000000000, delta=1740658721357000000 ns, racy<=2500000000 ns
02/27 12:18:42 DEBUG o.e.j.i.s.file.FileSnapshot:557 - file=/root/.gitconfig, is unmodified
02/27 12:18:42 DEBUG o.e.j.i.s.file.FileSnapshot:513 - file=/home/runner/work/experimental-career-work-master-thesis-atlantic-/experimental-career-work-master-thesis-atlantic-/.git/config, isRacyClean=false, read=2025-02-27 12:18:42.000000000, lastModified=2025-02-27 12:18:34.000000000, delta=8000000000 ns, racy<=2500000000 ns
02/27 12:18:42 DEBUG o.e.j.i.s.file.FileSnapshot:557 - file=/home/runner/work/experimental-career-work-master-thesis-atlantic-/experimental-career-work-master-thesis-atlantic-/.git/config, is unmodified
02/27 12:18:42 DEBUG o.e.j.i.s.file.FileSnapshot:513 - file=/home/runner/work/experimental-career-work-master-thesis-atlantic-/experimental-career-work-master-thesis-atlantic-/.git/objects/pack, isRacyClean=false, read=2025-02-27 12:18:42.034000000, lastModified=2025-02-27 12:18:26.000000000, delta=16034000000 ns, racy<=1251250000 ns
02/27 12:18:42 DEBUG o.e.j.i.s.file.FileSnapshot:557 - file=/home/runner/work/experimental-career-work-master-thesis-atlantic-/experimental-career-work-master-thesis-atlantic-/.git/objects/pack, is unmodified
02/27 12:18:42 DEBUG o.e.j.i.s.file.FileSnapshot:513 - file=/root/.config/jgit/config.lock, isRacyClean=true, read=2025-02-27 12:18:42.044000000, lastModified=2025-02-27 12:18:41.000000000, delta=1044000000 ns, racy<=1251250000 ns
02/27 12:18:42 DEBUG o.e.j.i.s.file.FileSnapshot:564 - file=/root/.config/jgit/config.lock, is racily clean
02/27 12:18:42 DEBUG o.e.jgit.util.SystemReader:432 - loading config FileBasedConfig[/root/.config/jgit/config]
02/27 12:18:42 DEBUG o.e.j.i.s.file.FileSnapshot:272 - file=/root/.config/jgit/config, create new FileSnapshot: lastRead=2025-02-27 12:18:42.054000000, lastModified=2025-02-27 12:18:41.000000000, size=131, fileKey=(dev=2e,ino=4475043)
02/27 12:18:42 DEBUG o.e.j.i.s.file.FileSnapshot:513 - file=/root/.config/jgit/config.lock, isRacyClean=true, read=2025-02-27 12:18:42.054000000, lastModified=2025-02-27 12:18:41.000000000, delta=1054000000 ns, racy<=1251250000 ns
02/27 12:18:42 DEBUG o.e.j.i.s.file.FileSnapshot:513 - file=/root/.gitconfig, isRacyClean=false, read=2025-02-27 12:18:41.357000000, lastModified=1970-01-01 00:00:00.000000000, delta=1740658721357000000 ns, racy<=2500000000 ns
02/27 12:18:42 DEBUG o.e.j.i.s.file.FileSnapshot:557 - file=/root/.gitconfig, is unmodified
02/27 12:18:42 DEBUG o.e.j.i.s.file.FileSnapshot:513 - file=/home/runner/work/experimental-career-work-master-thesis-atlantic-/experimental-career-work-master-thesis-atlantic-/.git/config, isRacyClean=false, read=2025-02-27 12:18:42.000000000, lastModified=2025-02-27 12:18:34.000000000, delta=8000000000 ns, racy<=2500000000 ns

02/27 12:18:42 DEBUG o.e.j.i.s.file.FileSnapshot:557 - file=/home/runner/work/experimental-career-work-master-thesis-atlantic-/experimental-career-work-master-thesis-atlantic-/.git/config, is unmodified
02/27 12:18:42 DEBUG o.e.j.i.s.file.FileSnapshot:513 - file=/home/runner/work/experimental-career-work-master-thesis-atlantic-/experimental-career-work-master-thesis-atlantic-/.git/objects/pack, isRacyClean=false, read=2025-02-27 12:18:42.034000000, lastModified=2025-02-27 12:18:26.000000000, delta=16034000000 ns, racy<=1251250000 ns
02/27 12:18:42 DEBUG o.e.j.i.s.file.FileSnapshot:557 - file=/home/runner/work/experimental-career-work-master-thesis-atlantic-/experimental-career-work-master-thesis-atlantic-/.git/objects/pack, is unmodified
02/27 12:18:42 DEBUG o.e.j.i.s.file.FileSnapshot:513 - file=/home/runner/work/experimental-career-work-master-thesis-atlantic-/experimental-career-work-master-thesis-atlantic-/.git/objects/pack, isRacyClean=false, read=2025-02-27 12:18:42.034000000, lastModified=2025-02-27 12:18:26.000000000, delta=16034000000 ns, racy<=1251250000 ns
02/27 12:18:42 DEBUG o.e.j.i.s.file.FileSnapshot:557 - file=/home/runner/work/experimental-career-work-master-thesis-atlantic-/experimental-career-work-master-thesis-atlantic-/.git/objects/pack, is unmodified
02/27 12:18:42 DEBUG o.e.j.i.s.file.FileSnapshot:513 - file=/root/.config/jgit/config.lock, isRacyClean=true, read=2025-02-27 12:18:42.054000000, lastModified=2025-02-27 12:18:41.000000000, delta=1054000000 ns, racy<=1251250000 ns
02/27 12:18:42 DEBUG o.e.j.i.s.file.FileSnapshot:564 - file=/root/.config/jgit/config.lock, is racily clean
02/27 12:18:42 DEBUG o.e.jgit.util.SystemReader:432 - loading config FileBasedConfig[/root/.config/jgit/config]
02/27 12:18:42 DEBUG o.e.j.i.s.file.FileSnapshot:272 - file=/root/.config/jgit/config, create new FileSnapshot: lastRead=2025-02-27 12:18:42.063000000, lastModified=2025-02-27 12:18:41.000000000, size=131, fileKey=(dev=2e,ino=4475043)
02/27 12:18:42 DEBUG o.e.j.i.s.file.FileSnapshot:513 - file=/root/.config/jgit/config.lock, isRacyClean=true, read=2025-02-27 12:18:42.063000000, lastModified=2025-02-27 12:18:41.000000000, delta=1063000000 ns, racy<=1251250000 ns
02/27 12:18:42 DEBUG o.e.j.i.s.file.FileSnapshot:513 - file=/root/.gitconfig, isRacyClean=false, read=2025-02-27 12:18:41.357000000, lastModified=1970-01-01 00:00:00.000000000, delta=1740658721357000000 ns, racy<=2500000000 ns
02/27 12:18:42 DEBUG o.e.j.i.s.file.FileSnapshot:557 - file=/root/.gitconfig, is unmodified
02/27 12:18:42 DEBUG o.e.j.i.s.file.FileSnapshot:513 - file=/home/runner/work/experimental-career-work-master-thesis-atlantic-/experimental-career-work-master-thesis-atlantic-/.git/config, isRacyClean=false, read=2025-02-27 12:18:42.000000000, lastModified=2025-02-27 12:18:34.000000000, delta=8000000000 ns, racy<=2500000000 ns
02/27 12:18:42 DEBUG o.e.j.i.s.file.FileSnapshot:557 - file=/home/runner/work/experimental-career-work-master-thesis-atlantic-/experimental-career-work-master-thesis-atlantic-/.git/config, is unmodified
02/27 12:18:42 DEBUG o.e.j.i.s.file.FileSnapshot:513 - file=/root/.config/jgit/config.lock, isRacyClean=true, read=2025-02-27 12:18:42.063000000, lastModified=2025-02-27 12:18:41.000000000, delta=1063000000 ns, racy<=1251250000 ns
02/27 12:18:42 DEBUG o.e.j.i.s.file.FileSnapshot:564 - file=/root/.config/jgit/config.lock, is racily clean
02/27 12:18:42 DEBUG o.e.jgit.util.SystemReader:432 - loading config FileBasedConfig[/root/.config/jgit/config]

02/27 12:18:42 DEBUG o.e.j.i.s.file.FileSnapshot:272 - file=/root/.config/jgit/config, create new FileSnapshot: lastRead=2025-02-27 12:18:42.710000000, lastModified=2025-02-27 12:18:41.000000000, size=131, fileKey=(dev=2e,ino=4475043)
02/27 12:18:42 DEBUG o.e.j.i.s.file.FileSnapshot:513 - file=/root/.config/jgit/config.lock, isRacyClean=false, read=2025-02-27 12:18:42.710000000, lastModified=2025-02-27 12:18:41.000000000, delta=1710000000 ns, racy<=1251250000 ns
02/27 12:18:42 DEBUG o.e.j.i.s.file.FileSnapshot:513 - file=/root/.gitconfig, isRacyClean=false, read=2025-02-27 12:18:41.357000000, lastModified=1970-01-01 00:00:00.000000000, delta=1740658721357000000 ns, racy<=2500000000 ns
02/27 12:18:42 DEBUG o.e.j.i.s.file.FileSnapshot:557 - file=/root/.gitconfig, is unmodified
02/27 12:18:42 DEBUG o.e.j.i.s.file.FileSnapshot:513 - file=/home/runner/work/experimental-career-work-master-thesis-atlantic-/experimental-career-work-master-thesis-atlantic-/.git/config, isRacyClean=false, read=2025-02-27 12:18:42.000000000, lastModified=2025-02-27 12:18:34.000000000, delta=8000000000 ns, racy<=2500000000 ns
02/27 12:18:42 DEBUG o.e.j.i.s.file.FileSnapshot:557 - file=/home/runner/work/experimental-career-work-master-thesis-atlantic-/experimental-career-work-master-thesis-atlantic-/.git/config, is unmodified
02/27 12:18:42 DEBUG o.e.j.i.s.file.FileSnapshot:550 - file=/root/.config/jgit/config.lock, cannot be racily clean
02/27 12:18:42 DEBUG o.e.j.i.s.file.FileSnapshot:513 - file=/root/.gitconfig, isRacyClean=false, read=2025-02-27 12:18:41.357000000, lastModified=1970-01-01 00:00:00.000000000, delta=1740658721357000000 ns, racy<=2500000000 ns
02/27 12:18:42 DEBUG o.e.j.i.s.file.FileSnapshot:557 - file=/root/.gitconfig, is unmodified
02/27 12:18:42 DEBUG o.e.j.i.s.file.FileSnapshot:513 - file=/home/runner/work/experimental-career-work-master-thesis-atlantic-/experimental-career-work-master-thesis-atlantic-/.git/config, isRacyClean=false, read=2025-02-27 12:18:42.000000000, lastModified=2025-02-27 12:18:34.000000000, delta=8000000000 ns, racy<=2500000000 ns
02/27 12:18:42 DEBUG o.e.j.i.s.file.FileSnapshot:557 - file=/home/runner/work/experimental-career-work-master-thesis-atlantic-/experimental-career-work-master-thesis-atlantic-/.git/config, is unmodified
02/27 12:18:42 WARN c.c.a.c.command.AnalyseCommand:105 - There are uncommitted changes in the project.
Please commit them before running your analysis:
Uncommited files:
results.sarif
02/27 12:18:42 DEBUG o.e.j.i.s.file.FileSnapshot:550 - file=/root/.config/jgit/config.lock, cannot be racily clean
02/27 12:18:42 DEBUG o.e.j.i.s.file.FileSnapshot:513 - file=/root/.gitconfig, isRacyClean=false, read=2025-02-27 12:18:41.357000000, lastModified=1970-01-01 00:00:00.000000000, delta=1740658721357000000 ns, racy<=2500000000 ns
02/27 12:18:42 DEBUG o.e.j.i.s.file.FileSnapshot:557 - file=/root/.gitconfig, is unmodified
02/27 12:18:42 DEBUG o.e.j.i.s.file.FileSnapshot:513 - file=/home/runner/work/experimental-career-work-master-thesis-atlantic-/experimental-career-work-master-thesis-atlantic-/.git/config, isRacyClean=false, read=2025-02-27 12:18:42.000000000, lastModified=2025-02-27 12:18:34.000000000, delta=8000000000 ns, racy<=2500000000 ns
02/27 12:18:42 DEBUG o.e.j.i.s.file.FileSnapshot:557 - file=/home/runner/work/experimental-career-work-master-thesis-atlantic-/experimental-career-work-master-thesis-atlantic-/.git/config, is unmodified

02/27 12:18:42 DEBUG o.e.j.i.s.file.FileSnapshot:513 - file=/home/runner/work/experimental-career-work-master-thesis-atlantic-/experimental-career-work-master-thesis-atlantic-/.git/HEAD, isRacyClean=false, read=2025-02-27 12:18:42.029000000, lastModified=2025-02-27 12:18:34.000000000, delta=8029000000 ns, racy<=1251250000 ns
02/27 12:18:42 DEBUG o.e.j.i.s.file.FileSnapshot:557 - file=/home/runner/work/experimental-career-work-master-thesis-atlantic-/experimental-career-work-master-thesis-atlantic-/.git/HEAD, is unmodified
02/27 12:18:42 DEBUG o.e.j.i.s.file.FileSnapshot:513 - file=/home/runner/work/experimental-career-work-master-thesis-atlantic-/experimental-career-work-master-thesis-atlantic-/.git/refs/heads/main, isRacyClean=false, read=2025-02-27 12:18:42.030000000, lastModified=2025-02-27 12:18:34.000000000, delta=8030000000 ns, racy<=1251250000 ns
02/27 12:18:42 DEBUG o.e.j.i.s.file.FileSnapshot:557 - file=/home/runner/work/experimental-career-work-master-thesis-atlantic-/experimental-career-work-master-thesis-atlantic-/.git/refs/heads/main, is unmodified
02/27 12:18:42 DEBUG o.e.j.i.s.file.FileSnapshot:550 - file=/root/.config/jgit/config.lock, cannot be racily clean
02/27 12:18:42 DEBUG o.e.j.i.s.file.FileSnapshot:513 - file=/root/.gitconfig, isRacyClean=false, read=2025-02-27 12:18:41.357000000, lastModified=1970-01-01 00:00:00.000000000, delta=1740658721357000000 ns, racy<=2500000000 ns
02/27 12:18:42 DEBUG o.e.j.i.s.file.FileSnapshot:557 - file=/root/.gitconfig, is unmodified
02/27 12:18:42 DEBUG o.e.j.i.s.file.FileSnapshot:513 - file=/home/runner/work/experimental-career-work-master-thesis-atlantic-/experimental-career-work-master-thesis-atlantic-/.git/config, isRacyClean=false, read=2025-02-27 12:18:42.000000000, lastModified=2025-02-27 12:18:34.000000000, delta=8000000000 ns, racy<=2500000000 ns
02/27 12:18:42 DEBUG o.e.j.i.s.file.FileSnapshot:557 - file=/home/runner/work/experimental-career-work-master-thesis-atlantic-/experimental-career-work-master-thesis-atlantic-/.git/config, is unmodified
02/27 12:18:42 DEBUG o.e.j.i.s.file.FileSnapshot:513 - file=/home/runner/work/experimental-career-work-master-thesis-atlantic-/experimental-career-work-master-thesis-atlantic-/.git/HEAD, isRacyClean=false, read=2025-02-27 12:18:42.029000000, lastModified=2025-02-27 12:18:34.000000000, delta=8029000000 ns, racy<=1251250000 ns
02/27 12:18:42 DEBUG o.e.j.i.s.file.FileSnapshot:557 - file=/home/runner/work/experimental-career-work-master-thesis-atlantic-/experimental-career-work-master-thesis-atlantic-/.git/HEAD, is unmodified
02/27 12:18:42 DEBUG o.e.j.i.s.file.FileSnapshot:513 - file=/home/runner/work/experimental-career-work-master-thesis-atlantic-/experimental-career-work-master-thesis-atlantic-/.git/refs/heads/main, isRacyClean=false, read=2025-02-27 12:18:42.030000000, lastModified=2025-02-27 12:18:34.000000000, delta=8030000000 ns, racy<=1251250000 ns
02/27 12:18:42 DEBUG o.e.j.i.s.file.FileSnapshot:557 - file=/home/runner/work/experimental-career-work-master-thesis-atlantic-/experimental-career-work-master-thesis-atlantic-/.git/refs/heads/main, is unmodified
02/27 12:18:42 DEBUG o.e.j.i.s.file.FileSnapshot:513 - file=/home/runner/work/experimental-career-work-master-thesis-atlantic-/experimental-career-work-master-thesis-atlantic-/.git/shallow, isRacyClean=false, read=2025-02-27 12:18:42.036000000, lastModified=2025-02-27 12:18:27.000000000, delta=15036000000 ns, racy<=1251250000 ns

02/27 12:18:42 DEBUG o.e.j.i.s.file.FileSnapshot:557 - file=/home/runner/work/experimental-career-work-master-thesis-atlantic-/experimental-career-work-master-thesis-atlantic-/.git/shallow, is unmodified
02/27 12:18:42 DEBUG o.e.j.i.s.file.FileSnapshot:272 - file=/home/runner/work/experimental-career-work-master-thesis-atlantic-/experimental-career-work-master-thesis-atlantic-/.git/config, create new FileSnapshot: lastRead=2025-02-27 12:18:42.730000000, lastModified=2025-02-27 12:18:34.000000000, size=454, fileKey=(dev=801,ino=795414)
02/27 12:18:42 DEBUG o.e.j.i.s.file.FileSnapshot:550 - file=/root/.config/jgit/config.lock, cannot be racily clean
02/27 12:18:42 DEBUG o.e.j.i.s.file.FileSnapshot:513 - file=/root/.gitconfig, isRacyClean=false, read=2025-02-27 12:18:41.357000000, lastModified=1970-01-01 00:00:00.000000000, delta=1740658721357000000 ns, racy<=2500000000 ns
02/27 12:18:42 DEBUG o.e.j.i.s.file.FileSnapshot:557 - file=/root/.gitconfig, is unmodified
02/27 12:18:42 DEBUG o.e.j.i.s.file.FileSnapshot:272 - file=/home/runner/work/experimental-career-work-master-thesis-atlantic-/experimental-career-work-master-thesis-atlantic-/.git/config, create new FileSnapshot: lastRead=2025-02-27 12:18:42.731000000, lastModified=2025-02-27 12:18:34.000000000, size=454, fileKey=(dev=801,ino=795414)
02/27 12:18:42 DEBUG o.e.j.i.s.file.FileSnapshot:550 - file=/root/.config/jgit/config.lock, cannot be racily clean
02/27 12:18:42 DEBUG o.e.j.i.s.file.FileSnapshot:513 - file=/root/.gitconfig, isRacyClean=false, read=2025-02-27 12:18:41.357000000, lastModified=1970-01-01 00:00:00.000000000, delta=1740658721357000000 ns, racy<=2500000000 ns
02/27 12:18:42 DEBUG o.e.j.i.s.file.FileSnapshot:557 - file=/root/.gitconfig, is unmodified
02/27 12:18:42 DEBUG o.e.j.i.s.file.FileSnapshot:513 - file=/home/runner/work/experimental-career-work-master-thesis-atlantic-/experimental-career-work-master-thesis-atlantic-/.git/config, isRacyClean=false, read=2025-02-27 12:18:42.731000000, lastModified=2025-02-27 12:18:34.000000000, delta=8731000000 ns, racy<=2500000000 ns
02/27 12:18:42 DEBUG o.e.j.i.s.file.FileSnapshot:557 - file=/home/runner/work/experimental-career-work-master-thesis-atlantic-/experimental-career-work-master-thesis-atlantic-/.git/config, is unmodified
02/27 12:18:42 DEBUG o.e.j.i.s.file.FileSnapshot:272 - file=/home/runner/work/experimental-career-work-master-thesis-atlantic-/experimental-career-work-master-thesis-atlantic-/.git/index, create new FileSnapshot: lastRead=2025-02-27 12:18:42.733000000, lastModified=2025-02-27 12:18:34.000000000, size=3364, fileKey=(dev=801,ino=795413)
02/27 12:18:42 DEBUG o.e.j.i.s.file.FileSnapshot:272 - file=/home/runner/work/experimental-career-work-master-thesis-atlantic-/experimental-career-work-master-thesis-atlantic-/.git/config, create new FileSnapshot: lastRead=2025-02-27 12:18:42.733000000, lastModified=2025-02-27 12:18:34.000000000, size=454, fileKey=(dev=801,ino=795414)
02/27 12:18:42 DEBUG o.e.j.i.s.file.FileSnapshot:550 - file=/root/.config/jgit/config.lock, cannot be racily clean
02/27 12:18:42 DEBUG o.e.j.i.s.file.FileSnapshot:513 - file=/root/.gitconfig, isRacyClean=false, read=2025-02-27 12:18:41.357000000, lastModified=1970-01-01 00:00:00.000000000, delta=1740658721357000000 ns, racy<=2500000000 ns
02/27 12:18:42 DEBUG o.e.j.i.s.file.FileSnapshot:557 - file=/root/.gitconfig, is unmodified
02/27 12:18:42 DEBUG o.e.j.i.s.file.FileSnapshot:272 - file=/home/runner/work/experimental-career-work-master-thesis-atlantic-/experimental-

career-work-master-thesis-atlantic-/.git/config, create new FileSnapshot: lastRead=2025-02-27 12:18:42.734000000, lastModified=2025-02-27 12:18:34.000000000, size=454, fileKey=(dev=801,ino=795414)
02/27 12:18:42 DEBUG o.e.j.i.s.file.FileSnapshot:550 - file=/root/.config/jgit/config.lock, cannot be racily clean
02/27 12:18:42 DEBUG o.e.j.i.s.file.FileSnapshot:513 - file=/root/.gitconfig, isRacyClean=false, read=2025-02-27 12:18:41.357000000, lastModified=1970-01-01 00:00:00.000000000, delta=1740658721357000000 ns, racy<=2500000000 ns
02/27 12:18:42 DEBUG o.e.j.i.s.file.FileSnapshot:557 - file=/root/.gitconfig, is unmodified
02/27 12:18:42 DEBUG o.e.j.i.s.file.FileSnapshot:513 - file=/home/runner/work/experimental-career-work-master-thesis-atlantic-/experimental-career-work-master-thesis-atlantic-/.git/config, isRacyClean=false, read=2025-02-27 12:18:42.734000000, lastModified=2025-02-27 12:18:34.000000000, delta=8734000000 ns, racy<=2500000000 ns
02/27 12:18:42 DEBUG o.e.j.i.s.file.FileSnapshot:557 - file=/home/runner/work/experimental-career-work-master-thesis-atlantic-/experimental-career-work-master-thesis-atlantic-/.git/config, is unmodified
02/27 12:18:42 DEBUG o.e.j.i.s.file.FileSnapshot:272 - file=/home/runner/work/experimental-career-work-master-thesis-atlantic-/experimental-career-work-master-thesis-atlantic-/.git/index, create new FileSnapshot: lastRead=2025-02-27 12:18:42.736000000, lastModified=2025-02-27 12:18:34.00000000
...

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me

-
-
- Settings

Codacy Security Scan
Create mdbook.ymleng #3

-

Codacy Security Scan
succeeded Feb 25, 2025 in 47s

8s
Current runner version: '2.322.0'
Operating System
Runner Image
Runner Image Provisioner
GITHUB_TOKEN Permissions

Secret source: Actions
Prepare workflow directory
Prepare all required actions
Getting action download info
Download action repository 'actions/checkout@v4'
(SHA:11bd71901bbe5b1630ceea73d27597364c9af683)
Download action repository 'codacy/codacy-analysis-cli-
action@d840f886c4bd4edc059706d09c6a1586111c540b'
(SHA:d840f886c4bd4edc059706d09c6a1586111c540b)
Download action repository 'github/codeql-action@v3'
(SHA:b56ba49b26e50535fa1e7f7db0f4f7b4bf65d80d)
Complete job name: Codacy Security Scan
7s
Run actions/checkout@v4
Syncing repository: Kananga5/experimental-career-work-master-thesis-atlantic-
Getting Git version info
Temporarily overriding HOME='/home/runner/work/_temp/5b297f60-bc05-491c-946b-
09bd3e93526d' before making global git config changes
Adding repository directory to the temporary git global config as a safe directory
/usr/bin/git config --global --add safe.directory /home/runner/work/experimental-career-
work-master-thesis-atlantic-/experimental-career-work-master-thesis-atlantic-
Deleting the contents of '/home/runner/work/experimental-career-work-master-thesis-
atlantic-/experimental-career-work-master-thesis-atlantic-'
Initializing the repository
Disabling automatic garbage collection
Setting up auth
Fetching the repository
Determining the checkout info
/usr/bin/git sparse-checkout disable
/usr/bin/git config --local --unset-all extensions.worktreeConfig
Checking out the ref
/usr/bin/git log -1 --format=%H
9d4c86672d506a31a6a939fc82f6e638795bdd8e
21s
Run codacy/codacy-analysis-cli-action@d840f886c4bd4edc059706d09c6a1586111c540b
Run echo "CODACY_ANALYSIS_CLI_VERSION=4.0.0" >> $GITHUB_ENV
Run echo "CLI_SCRIPT_PATH=/home/runner/work/_actions/codacy/codacy-analysis-cli-
action/d840f886c4bd4edc059706d09c6a1586111c540b/codacy-analysis-cli.sh" >>
$GITHUB_ENV
Run wget -O - https://raw.githubusercontent.com/codacy/codacy-analysis-cli/4.0.0/
bin/codacy-analysis-cli.sh > /home/runner/work/_actions/codacy/codacy-analysis-cli-
action/d840f886c4bd4edc059706d09c6a1586111c540b/codacy-analysis-cli.sh
--2025-02-25 12:52:53-- https://raw.githubusercontent.com/codacy/codacy-analysis-
cli/4.0.0/bin/codacy-analysis-cli.sh
Resolving raw.githubusercontent.com (raw.githubusercontent.com)...
185.199.111.133, 185.199.108.133, 185.199.109.133, ...
Connecting to raw.githubusercontent.com (raw.githubusercontent.com)|
185.199.111.133|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 3107 (3.0K) [text/plain]
Saving to: ‘STDOUT’
0K ... 100% 33.7M=0s
2025-02-25 12:52:53 (33.7 MB/s) - written to stdout [3107/3107]
Run chmod +x

/home/runner/work/_actions/codacy/codacy-analysis-cli-action/d840f886c4bd4edc059706d09c6a1586111c540b/codacy-analysis-cli.sh
Run /home/runner/work/_actions/codacy/codacy-analysis-cli-action/d840f886c4bd4edc059706d09c6a1586111c540b/codacy-analysis-cli.sh analyze $(if [true = true]; then echo "--verbose"; fi) $(if [ ]; then echo "--project-token "; fi) $(if [ ]; then echo "--codacy-api-base-url "; fi) $(if [sarif]; then echo "--format sarif"; fi) $(if [results.sarif]; then echo "--output results.sarif"; fi) $(if [ ]; then echo "--directory "; fi) $(if [ ]; then echo "--parallel "; fi) $(if [2147483647]; then echo "--max-allowed-issues 2147483647"; fi) $(if [ ]; then echo "--tool "; fi) $(if [ ]; then echo "--tool-timeout "; fi) $(if [= true]; then echo "--upload"; fi) $(if [= true]; then echo "--fail-if-incomplete"; fi) $(if [= true]; then echo "--allow-network"; fi) $(if [= true]; then echo "--force-file-permissions"; fi) $(if [true = true]; then echo "--gh-code-scanning-compat"; fi)
/home/runner/work/_temp/81e88f3b-575b-4ad9-92c1-87b4fa134142.sh: line 1: [: =: unary operator expected
/home/runner/work/_temp/81e88f3b-575b-4ad9-92c1-87b4fa134142.sh: line 1: [: =: unary operator expected
/home/runner/work/_temp/81e88f3b-575b-4ad9-92c1-87b4fa134142.sh: line 1: [: =: unary operator expected
/home/runner/work/_temp/81e88f3b-575b-4ad9-92c1-87b4fa134142.sh: line 1: [: =: unary operator expected
Unable to find image 'codacy/codacy-analysis-cli:4.0.0' locally
4.0.0: Pulling from codacy/codacy-analysis-cli
e7c96db7181b: Pulling fs layer
f910a506b6cb: Pulling fs layer
b6abafe80f63: Pulling fs layer
1811036e9141: Pulling fs layer
1811036e9141: Waiting
6314bc44cdf3: Pulling fs layer
8eac012f9da4: Pulling fs layer
6314bc44cdf3: Waiting
8eac012f9da4: Waiting
f910a506b6cb: Verifying Checksum
f910a506b6cb: Download complete
e7c96db7181b: Download complete
e7c96db7181b: Pull complete
6314bc44cdf3: Download complete
b6abafe80f63: Verifying Checksum
b6abafe80f63: Download complete
f910a506b6cb: Pull complete
1811036e9141: Verifying Checksum
1811036e9141: Download complete
8eac012f9da4: Verifying Checksum
8eac012f9da4: Download complete
b6abafe80f63: Pull complete
1811036e9141: Pull complete
6314bc44cdf3: Pull complete
8eac012f9da4: Pull complete
Digest: sha256:4e563da124426918287e6ca75e80396264f4304b4a971c601099029bf89f9bcb
Status: Downloaded newer image for codacy/codacy-analysis-cli:4.0.0
02/25 12:53:00 DEBUG o.e.j.i.s.file.FileSnapshot:272 - file=/home/runner/work/experimental-career-work-master-thesis-atlantic-/experimental-career-work-master-thesis-atlantic-/.git/config, create new FileSnapshot: lastRead=2025-02-25 12:53:00.393000000, lastModified=2025-02-25 12:52:52.000000000, size=454,

fileKey=(dev=801,ino=2099793)
02/25 12:53:00 DEBUG o.e.j.i.s.file.FileSnapshot:550 - file=/root/.config/jgit/config.lock, cannot be racily clean
02/25 12:53:00 DEBUG o.e.j.i.s.file.FileSnapshot:513 - file=/root/.gitconfig, isRacyClean=false, read=2025-02-25 12:52:59.759000000, lastModified=1970-01-01 00:00:00.000000000, delta=1740487979759000000 ns, racy<=2500000000 ns
02/25 12:53:00 DEBUG o.e.j.i.s.file.FileSnapshot:557 - file=/root/.gitconfig, is unmodified
02/25 12:53:00 DEBUG o.e.j.i.s.file.FileSnapshot:272 - file=/home/runner/work/experimental-career-work-master-thesis-atlantic-/experimental-career-work-master-thesis-atlantic-/.git/config, create new FileSnapshot: lastRead=2025-02-25 12:53:00.401000000, lastModified=2025-02-25 12:52:52.000000000, size=454, fileKey=(dev=801,ino=2099793)
02/25 12:53:00 DEBUG o.e.j.i.s.file.FileSnapshot:550 - file=/root/.config/jgit/config.lock, cannot be racily clean
02/25 12:53:00 DEBUG o.e.j.i.s.file.FileSnapshot:513 - file=/root/.gitconfig, isRacyClean=false, read=2025-02-25 12:52:59.759000000, lastModified=1970-01-01 00:00:00.000000000, delta=1740487979759000000 ns, racy<=2500000000 ns
02/25 12:53:00 DEBUG o.e.j.i.s.file.FileSnapshot:557 - file=/root/.gitconfig, is unmodified
02/25 12:53:00 DEBUG o.e.j.i.s.file.FileSnapshot:513 - file=/home/runner/work/experimental-career-work-master-thesis-atlantic-/experimental-career-work-master-thesis-atlantic-/.git/config, isRacyClean=false, read=2025-02-25 12:53:00.401000000, lastModified=2025-02-25 12:52:52.000000000, delta=8401000000 ns, racy<=2500000000 ns
02/25 12:53:00 DEBUG o.e.j.i.s.file.FileSnapshot:557 - file=/home/runner/work/experimental-career-work-master-thesis-atlantic-/experimental-career-work-master-thesis-atlantic-/.git/config, is unmodified
02/25 12:53:00 DEBUG o.e.j.i.s.file.FileSnapshot:272 - file=/home/runner/work/experimental-career-work-master-thesis-atlantic-/experimental-career-work-master-thesis-atlantic-/.git/index, create new FileSnapshot: lastRead=2025-02-25 12:53:00.404000000, lastModified=2025-02-25 12:52:52.000000000, size=2660, fileKey=(dev=801,ino=2099792)
02/25 12:53:00 DEBUG o.e.j.i.s.file.FileSnapshot:272 - file=/home/runner/work/experimental-career-work-master-thesis-atlantic-/experimental-career-work-master-thesis-atlantic-/.git/config, create new FileSnapshot: lastRead=2025-02-25 12:53:00.404000000, lastModified=2025-02-25 12:52:52.000000000, size=454, fileKey=(dev=801,ino=2099793)
02/25 12:53:00 DEBUG o.e.j.i.s.file.FileSnapshot:550 - file=/root/.config/jgit/config.lock, cannot be racily clean
02/25 12:53:00 DEBUG o.e.j.i.s.file.FileSnapshot:513 - file=/root/.gitconfig, isRacyClean=false, read=2025-02-25 12:52:59.759000000, lastModified=1970-01-01 00:00:00.000000000, delta=1740487979759000000 ns, racy<=2500000000 ns
02/25 12:53:00 DEBUG o.e.j.i.s.file.FileSnapshot:557 - file=/root/.gitconfig, is unmodified
02/25 12:53:00 DEBUG o.e.j.i.s.file.FileSnapshot:272 - file=/home/runner/work/experimental-career-work-master-thesis-atlantic-/experimental-career-work-master-thesis-atlantic-/.git/config, create new FileSnapshot: lastRead=2025-02-25 12:53:00.406000000, lastModified=2025-02-25 12:52:52.000000000, size=454, fileKey=(dev=801,ino=2099793)
02/25 12:53:00 DEBUG o.e.j.i.s.file.FileSnapshot:550 - file=/root/.config/jgit/config.lock, cannot be racily clean
02/25 12:53:00 DEBUG o.e.j.i.s.file.FileSnapshot:513 - file=/root/.gitconfig, isRacyClean=false, read=2025-02-25 12:52:59.759000000, lastModified=1970-01-01 00:00:00.000000000, delta=1740487979759000000 ns, racy<=2500000000 ns
02/25 12:53:00 DEBUG o.e.j.i.s.file.FileSnapshot:557 - file=/root/.gitconfig, is unmodified
02/25 12:53:00 DEBUG o.e.j.i.s.file.FileSnapshot:513 - file=/home/runner/work/experimental-career-work-master-thesis-atlantic-/experimental-

career-work-master-thesis-atlantic-/.git/config, isRacyClean=false, read=2025-02-25 12:53:00.406000000, lastModified=2025-02-25 12:52:52.000000000, delta=8406000000 ns, racy<=2500000000 ns
02/25 12:53:00 DEBUG o.e.j.i.s.file.FileSnapshot:557 - file=/home/runner/work/experimental-career-work-master-thesis-atlantic-/experimental-career-work-master-thesis-atlantic-/.git/config, is unmodified
02/25 12:53:00 DEBUG o.e.j.i.s.file.FileSnapshot:272 - file=/home/runner/work/experimental-career-work-master-thesis-atlantic-/experimental-career-work-master-thesis-atlantic-/.git/index, create new FileSnapshot: lastRead=2025-02-25 12:53:00.409000000, lastModified=2025-02-25 12:52:52.000000000, size=2660, fileKey=(dev=801,ino=2099792)
02/25 12:53:00 DEBUG o.e.j.i.s.file.FileSnapshot:550 - file=/root/.config/jgit/config.lock, cannot be racily clean
02/25 12:53:00 DEBUG o.e.j.i.s.file.FileSnapshot:513 - file=/root/.gitconfig, isRacyClean=false, read=2025-02-25 12:52:59.759000000, lastModified=1970-01-01 00:00:00.000000000, delta=1740487979759000000 ns, racy<=2500000000 ns
02/25 12:53:00 DEBUG o.e.j.i.s.file.FileSnapshot:557 - file=/root/.gitconfig, is unmodified
02/25 12:53:00 DEBUG o.e.j.i.s.file.FileSnapshot:513 - file=/home/runner/work/experimental-career-work-master-thesis-atlantic-/experimental-career-work-master-thesis-atlantic-/.git/config, isRacyClean=false, read=2025-02-25 12:53:00.406000000, lastModified=2025-02-25 12:52:52.000000000, delta=8406000000 ns, racy<=2500000000 ns
02/25 12:53:00 DEBUG o.e.j.i.s.file.FileSnapshot:557 - file=/home/runner/work/experimental-career-work-master-thesis-atlantic-/experimental-career-work-master-thesis-atlantic-/.git/config, is unmodified
02/25 12:53:00 DEBUG o.e.j.i.s.file.FileSnapshot:550 - file=/root/.config/jgit/config.lock, cannot be racily clean
02/25 12:53:00 DEBUG o.e.j.i.s.file.FileSnapshot:513 - file=/root/.gitconfig, isRacyClean=false, read=2025-02-25 12:52:59.759000000, lastModified=1970-01-01 00:00:00.000000000, delta=1740487979759000000 ns, racy<=2500000000 ns
02/25 12:53:00 DEBUG o.e.j.i.s.file.FileSnapshot:557 - file=/root/.gitconfig, is unmodified
02/25 12:53:00 DEBUG o.e.j.i.s.file.FileSnapshot:513 - file=/home/runner/work/experimental-career-work-master-thesis-atlantic-/experimental-career-work-master-thesis-atlantic-/.git/config, isRacyClean=false, read=2025-02-25 12:53:00.406000000, lastModified=2025-02-25 12:52:52.000000000, delta=8406000000 ns, racy<=2500000000 ns
02/25 12:53:00 DEBUG o.e.j.i.s.file.FileSnapshot:557 - file=/home/runner/work/experimental-career-work-master-thesis-atlantic-/experimental-career-work-master-thesis-atlantic-/.git/config, is unmodified
02/25 12:53:00 DEBUG o.e.j.i.s.file.FileSnapshot:550 - file=/root/.config/jgit/config.lock, cannot be racily clean
02/25 12:53:00 DEBUG o.e.j.i.s.file.FileSnapshot:513 - file=/root/.gitconfig, isRacyClean=false, read=2025-02-25 12:52:59.759000000, lastModified=1970-01-01 00:00:00.000000000, delta=1740487979759000000 ns, racy<=2500000000 ns
02/25 12:53:00 DEBUG o.e.j.i.s.file.FileSnapshot:557 - file=/root/.gitconfig, is unmodified
02/25 12:53:00 DEBUG o.e.j.i.s.file.FileSnapshot:513 - file=/home/runner/work/experimental-career-work-master-thesis-atlantic-/experimental-career-work-master-thesis-atlantic-/.git/config, isRacyClean=false, read=2025-02-25 12:53:00.406000000, lastModified=2025-02-25 12:52:52.000000000, delta=8406000000 ns, racy<=2500000000 ns
02/25 12:53:00 DEBUG o.e.j.i.s.file.FileSnapshot:557 - file=/home/runner/work/experimental-career-work-master-thesis-atlantic-/experimental-career-work-master-thesis-atlantic-/.git/config, is unmodified
02/25 12:53:00 DEBUG o.e.j.i.s.file.FileSnapshot:272 - file=/home/runner/work/experimental-career-work-master-thesis-atlantic-/experimental-

career-work-master-thesis-atlantic-/.git/HEAD, create new FileSnapshot: lastRead=2025-02-25 12:53:00.431000000, lastModified=2025-02-25 12:52:52.000000000, size=21, fileKey=(dev=801,ino=2099805)
02/25 12:53:00 DEBUG o.e.j.i.s.file.FileSnapshot:272 - file=/home/runner/work/experimental-career-work-master-thesis-atlantic-/experimental-career-work-master-thesis-atlantic-/.git/refs/heads/main, create new FileSnapshot: lastRead=2025-02-25 12:53:00.431000000, lastModified=2025-02-25 12:52:52.000000000, size=41, fileKey=(dev=801,ino=2099802)
02/25 12:53:00 DEBUG o.e.j.i.s.file.FileSnapshot:550 - file=/root/.config/jgit/config.lock, cannot be racily clean
02/25 12:53:00 DEBUG o.e.j.i.s.file.FileSnapshot:513 - file=/root/.gitconfig, isRacyClean=false, read=2025-02-25 12:52:59.759000000, lastModified=1970-01-01 00:00:00.000000000, delta=1740487979759000000 ns, racy<=2500000000 ns
02/25 12:53:00 DEBUG o.e.j.i.s.file.FileSnapshot:557 - file=/root/.gitconfig, is unmodified
02/25 12:53:00 DEBUG o.e.j.i.s.file.FileSnapshot:513 - file=/home/runner/work/experimental-career-work-master-thesis-atlantic-/experimental-career-work-master-thesis-atlantic-/.git/config, isRacyClean=false, read=2025-02-25 12:53:00.406000000, lastModified=2025-02-25 12:52:52.000000000, delta=8406000000 ns, racy<=2500000000 ns
02/25 12:53:00 DEBUG o.e.j.i.s.file.FileSnapshot:557 - file=/home/runner/work/experimental-career-work-master-thesis-atlantic-/experimental-career-work-master-thesis-atlantic-/.git/config, is unmodified
02/25 12:53:00 DEBUG o.e.j.i.s.file.FileSnapshot:513 - file=/home/runner/work/experimental-career-work-master-thesis-atlantic-/experimental-career-work-master-thesis-atlantic-/.git/HEAD, isRacyClean=false, read=2025-02-25 12:53:00.431000000, lastModified=2025-02-25 12:52:52.000000000, delta=8431000000 ns, racy<=1251250000 ns
02/25 12:53:00 DEBUG o.e.j.i.s.file.FileSnapshot:557 - file=/home/runner/work/experimental-career-work-master-thesis-atlantic-/experimental-career-work-master-thesis-atlantic-/.git/HEAD, is unmodified
02/25 12:53:00 DEBUG o.e.j.i.s.file.FileSnapshot:513 - file=/home/runner/work/experimental-career-work-master-thesis-atlantic-/experimental-career-work-master-thesis-atlantic-/.git/refs/heads/main, isRacyClean=false, read=2025-02-25 12:53:00.431000000, lastModified=2025-02-25 12:52:52.000000000, delta=8431000000 ns, racy<=1251250000 ns
02/25 12:53:00 DEBUG o.e.j.i.s.file.FileSnapshot:557 - file=/home/runner/work/experimental-career-work-master-thesis-atlantic-/experimental-career-work-master-thesis-atlantic-/.git/refs/heads/main, is unmodified
02/25 12:53:00 DEBUG o.e.j.i.s.file.FileSnapshot:581 - file=null, size changed from -1 to 4096 bytes
02/25 12:53:00 DEBUG o.e.j.i.s.file.FileSnapshot:272 - file=/home/runner/work/experimental-career-work-master-thesis-atlantic-/experimental-career-work-master-thesis-atlantic-/.git/objects/pack, create new FileSnapshot: lastRead=2025-02-25 12:53:00.435000000, lastModified=2025-02-25 12:52:45.000000000, size=4096, fileKey=(dev=801,ino=2099727)
02/25 12:53:00 DEBUG o.e.j.i.s.file.FileSnapshot:513 - file=/home/runner/work/experimental-career-work-master-thesis-atlantic-/experimental-career-work-master-thesis-atlantic-/.git/objects/pack, isRacyClean=false, read=2025-02-25 12:53:00.435000000, lastModified=2025-02-25 12:52:45.000000000, delta=15435000000 ns, racy<=1251250000 ns
02/25 12:53:00 DEBUG o.e.j.i.s.file.FileSnapshot:557 - file=/home/runner/work/experimental-career-work-master-thesis-atlantic-/experimental-career-work-master-thesis-atlantic-/.git/objects/pack, is unmodified
02/25 12:53:00 DEBUG o.e.j.i.s.file.FileSnapshot:581 - file=null, size changed from -1 to 41 bytes

02/25 12:53:00 DEBUG o.e.j.i.s.file.FileSnapshot:272 - file=/home/runner/work/experimental-career-work-master-thesis-atlantic-/experimental-career-work-master-thesis-atlantic-/.git/shallow, create new FileSnapshot: lastRead=2025-02-25 12:53:00.437000000, lastModified=2025-02-25 12:52:46.000000000, size=41, fileKey=(dev=801,ino=2099730)
02/25 12:53:00 DEBUG o.e.j.i.s.file.FileSnapshot:513 - file=/home/runner/work/experimental-career-work-master-thesis-atlantic-/experimental-career-work-master-thesis-atlantic-/.git/objects/pack, isRacyClean=false, read=2025-02-25 12:53:00.435000000, lastModified=2025-02-25 12:52:45.000000000, delta=15435000000 ns, racy<=1251250000 ns
02/25 12:53:00 DEBUG o.e.j.i.s.file.FileSnapshot:557 - file=/home/runner/work/experimental-career-work-master-thesis-atlantic-/experimental-career-work-master-thesis-atlantic-/.git/objects/pack, is unmodified
02/25 12:53:00 DEBUG o.e.j.i.s.file.FileSnapshot:272 - file=/home/runner/work/experimental-career-work-master-thesis-atlantic-/experimental-career-work-master-thesis-atlantic-/.git/index, create new FileSnapshot: lastRead=2025-02-25 12:53:00.441000000, lastModified=2025-02-25 12:52:52.000000000, size=2660, fileKey=(dev=801,ino=2099792)
02/25 12:53:00 DEBUG o.e.j.i.s.file.FileSnapshot:272 - file=/home/runner/work/experimental-career-work-master-thesis-atlantic-/experimental-career-work-master-thesis-atlantic-/.git/index, create new FileSnapshot: lastRead=2025-02-25 12:53:00.444000000, lastModified=2025-02-25 12:52:52.000000000, size=2660, fileKey=(dev=801,ino=2099792)
02/25 12:53:00 DEBUG o.e.j.i.s.file.FileSnapshot:550 - file=/root/.config/jgit/config.lock, cannot be racily clean
02/25 12:53:00 DEBUG o.e.j.i.s.file.FileSnapshot:513 - file=/root/.gitconfig, isRacyClean=false, read=2025-02-25 12:52:59.759000000, lastModified=1970-01-01 00:00:00.000000000, delta=1740487979759000000 ns, racy<=2500000000 ns
02/25 12:53:00 DEBUG o.e.j.i.s.file.FileSnapshot:557 - file=/root/.gitconfig, is unmodified
02/25 12:53:00 DEBUG o.e.j.i.s.file.FileSnapshot:513 - file=/home/runner/work/experimental-career-work-master-thesis-atlantic-/experimental-career-work-master-thesis-atlantic-/.git/config, isRacyClean=false, read=2025-02-25 12:53:00.406000000, lastModified=2025-02-25 12:52:52.000000000, delta=8406000000 ns, racy<=2500000000 ns
02/25 12:53:00 DEBUG o.e.j.i.s.file.FileSnapshot:557 - file=/home/runner/work/experimental-career-work-master-thesis-atlantic-/experimental-career-work-master-thesis-atlantic-/.git/config, is unmodified
02/25 12:53:00 DEBUG o.e.j.i.s.file.FileSnapshot:513 - file=/home/runner/work/experimental-career-work-master-thesis-atlantic-/experimental-career-work-master-thesis-atlantic-/.git/objects/pack, isRacyClean=false, read=2025-02-25 12:53:00.435000000, lastModified=2025-02-25 12:52:45.000000000, delta=15435000000 ns, racy<=1251250000 ns
02/25 12:53:00 DEBUG o.e.j.i.s.file.FileSnapshot:557 - file=/home/runner/work/experimental-career-work-master-thesis-atlantic-/experimental-career-work-master-thesis-atlantic-/.git/objects/pack, is unmodified
02/25 12:53:00 DEBUG o.e.j.i.s.file.FileSnapshot:550 - file=/root/.config/jgit/config.lock, cannot be racily clean
02/25 12:53:00 DEBUG o.e.j.i.s.file.FileSnapshot:513 - file=/root/.gitconfig, isRacyClean=false, read=2025-02-25 12:52:59.759000000, lastModified=1970-01-01 00:00:00.000000000, delta=1740487979759000000 ns, racy<=2500000000 ns
02/25 12:53:00 DEBUG o.e.j.i.s.file.FileSnapshot:557 - file=/root/.gitconfig, is unmodified
02/25 12:53:00 DEBUG o.e.j.i.s.file.FileSnapshot:513 - file=/home/runner/work/experimental-career-work-master-thesis-atlantic-/experimental-career-work-master-thesis-atlantic-/.git/config, isRacyClean=false, read=2025-02-25 12:53:00.406000000, lastModified=2025-02-25 12:52:52.000000000, delta=8406000000

ns, racy<=2500000000 ns
02/25 12:53:00 DEBUG o.e.j.i.s.file.FileSnapshot:557 - file=/home/runner/work/experimental-career-work-master-thesis-atlantic-/experimental-career-work-master-thesis-atlantic-/.git/config, is unmodified
02/25 12:53:00 DEBUG o.e.j.i.s.file.FileSnapshot:513 - file=/home/runner/work/experimental-career-work-master-thesis-atlantic-/experimental-career-work-master-thesis-atlantic-/.git/objects/pack, isRacyClean=false, read=2025-02-25 12:53:00.435000000, lastModified=2025-02-25 12:52:45.000000000, delta=15435000000 ns, racy<=1251250000 ns
02/25 12:53:00 DEBUG o.e.j.i.s.file.FileSnapshot:557 - file=/home/runner/work/experimental-career-work-master-thesis-atlantic-/experimental-career-work-master-thesis-atlantic-/.git/objects/pack, is unmodified
02/25 12:53:00 DEBUG o.e.j.i.s.file.FileSnapshot:513 - file=/home/runner/work/experimental-career-work-master-thesis-atlantic-/experimental-career-work-master-thesis-atlantic-/.git/objects/pack, isRacyClean=false, read=2025-02-25 12:53:00.435000000, lastModified=2025-02-25 12:52:45.000000000, delta=15435000000 ns, racy<=1251250000 ns
02/25 12:53:00 DEBUG o.e.j.i.s.file.FileSnapshot:557 - file=/home/runner/work/experimental-career-work-master-thesis-atlantic-/experimental-career-work-master-thesis-atlantic-/.git/objects/pack, is unmodified
02/25 12:53:00 DEBUG o.e.j.i.s.file.FileSnapshot:550 - file=/root/.config/jgit/config.lock, cannot be racily clean
02/25 12:53:00 DEBUG o.e.j.i.s.file.FileSnapshot:513 - file=/root/.gitconfig, isRacyClean=false, read=2025-02-25 12:52:59.759000000, lastModified=1970-01-01 00:00:00.000000000, delta=1740487979759000000 ns, racy<=2500000000 ns
02/25 12:53:00 DEBUG o.e.j.i.s.file.FileSnapshot:557 - file=/root/.gitconfig, is unmodified
02/25 12:53:00 DEBUG o.e.j.i.s.file.FileSnapshot:513 - file=/home/runner/work/experimental-career-work-master-thesis-atlantic-/experimental-career-work-master-thesis-atlantic-/.git/config, isRacyClean=false, read=2025-02-25 12:53:00.406000000, lastModified=2025-02-25 12:52:52.000000000, delta=8406000000 ns, racy<=2500000000 ns
02/25 12:53:00 DEBUG o.e.j.i.s.file.FileSnapshot:557 - file=/home/runner/work/experimental-career-work-master-thesis-atlantic-/experimental-career-work-master-thesis-atlantic-/.git/config, is unmodified
02/25 12:53:01 DEBUG o.e.j.i.s.file.FileSnapshot:550 - file=/root/.config/jgit/config.lock, cannot be racily clean
02/25 12:53:01 DEBUG o.e.j.i.s.file.FileSnapshot:513 - file=/root/.gitconfig, isRacyClean=false, read=2025-02-25 12:52:59.759000000, lastModified=1970-01-01 00:00:00.000000000, delta=1740487979759000000 ns, racy<=2500000000 ns
02/25 12:53:01 DEBUG o.e.j.i.s.file.FileSnapshot:557 - file=/root/.gitconfig, is unmodified
02/25 12:53:01 DEBUG o.e.j.i.s.file.FileSnapshot:513 - file=/home/runner/work/experimental-career-work-master-thesis-atlantic-/experimental-career-work-master-thesis-atlantic-/.git/config, isRacyClean=false, read=2025-02-25 12:53:00.406000000, lastModified=2025-02-25 12:52:52.000000000, delta=8406000000 ns, racy<=2500000000 ns
02/25 12:53:01 DEBUG o.e.j.i.s.file.FileSnapshot:557 - file=/home/runner/work/experimental-career-work-master-thesis-atlantic-/experimental-career-work-master-thesis-atlantic-/.git/config, is unmodified
02/25 12:53:01 DEBUG o.e.j.i.s.file.FileSnapshot:550 - file=/root/.config/jgit/config.lock, cannot be racily clean
02/25 12:53:01 DEBUG o.e.j.i.s.file.FileSnapshot:513 - file=/root/.gitconfig, isRacyClean=false, read=2025-02-25 12:52:59.759000000, lastModified=1970-01-01 00:00:00.000000000, delta=1740487979759000000 ns, racy<=2500000000 ns
02/25 12:53:01 DEBUG o.e.j.i.s.file.FileSnapshot:557 - file=/root/.gitconfig, is unmodified
02/25 12:53:01 DEBUG o.e.j.i.s.file.FileSnapshot:513 -

file=/home/runner/work/experimental-career-work-master-thesis-atlantic-/experimental-career-work-master-thesis-atlantic-/.git/config, isRacyClean=false, read=2025-02-25 12:53:00.406000000, lastModified=2025-02-25 12:52:52.000000000, delta=8406000000 ns, racy<=2500000000 ns
02/25 12:53:01 DEBUG o.e.j.i.s.file.FileSnapshot:557 - file=/home/runner/work/experimental-career-work-master-thesis-atlantic-/experimental-career-work-master-thesis-atlantic-/.git/config, is unmodified
02/25 12:53:01 WARN c.c.a.c.command.AnalyseCommand:105 - There are uncommitted changes in the project.
Please commit them before running your analysis:
Uncommited files:
results.sarif
02/25 12:53:01 DEBUG o.e.j.i.s.file.FileSnapshot:550 - file=/root/.config/jgit/config.lock, cannot be racily clean
02/25 12:53:01 DEBUG o.e.j.i.s.file.FileSnapshot:513 - file=/root/.gitconfig, isRacyClean=false, read=2025-02-25 12:52:59.759000000, lastModified=1970-01-01 00:00:00.000000000, delta=1740487979759000000 ns, racy<=2500000000 ns
02/25 12:53:01 DEBUG o.e.j.i.s.file.FileSnapshot:557 - file=/root/.gitconfig, is unmodified
02/25 12:53:01 DEBUG o.e.j.i.s.file.FileSnapshot:513 - file=/home/runner/work/experimental-career-work-master-thesis-atlantic-/experimental-career-work-master-thesis-atlantic-/.git/config, isRacyClean=false, read=2025-02-25 12:53:00.406000000, lastModified=2025-02-25 12:52:52.000000000, delta=8406000000 ns, racy<=2500000000 ns
02/25 12:53:01 DEBUG o.e.j.i.s.file.FileSnapshot:557 - file=/home/runner/work/experimental-career-work-master-thesis-atlantic-/experimental-career-work-master-thesis-atlantic-/.git/config, is unmodified
02/25 12:53:01 DEBUG o.e.j.i.s.file.FileSnapshot:513 - file=/home/runner/work/experimental-career-work-master-thesis-atlantic-/experimental-career-work-master-thesis-atlantic-/.git/HEAD, isRacyClean=false, read=2025-02-25 12:53:00.431000000, lastModified=2025-02-25 12:52:52.000000000, delta=8431000000 ns, racy<=1251250000 ns
02/25 12:53:01 DEBUG o.e.j.i.s.file.FileSnapshot:557 - file=/home/runner/work/experimental-career-work-master-thesis-atlantic-/experimental-career-work-master-thesis-atlantic-/.git/HEAD, is unmodified
02/25 12:53:01 DEBUG o.e.j.i.s.file.FileSnapshot:513 - file=/home/runner/work/experimental-career-work-master-thesis-atlantic-/experimental-career-work-master-thesis-atlantic-/.git/refs/heads/main, isRacyClean=false, read=2025-02-25 12:53:00.431000000, lastModified=2025-02-25 12:52:52.000000000, delta=8431000000 ns, racy<=1251250000 ns
02/25 12:53:01 DEBUG o.e.j.i.s.file.FileSnapshot:557 - file=/home/runner/work/experimental-career-work-master-thesis-atlantic-/experimental-career-work-master-thesis-atlantic-/.git/refs/heads/main, is unmodified
02/25 12:53:01 DEBUG o.e.j.i.s.file.FileSnapshot:550 - file=/root/.config/jgit/config.lock, cannot be racily clean
02/25 12:53:01 DEBUG o.e.j.i.s.file.FileSnapshot:513 - file=/root/.gitconfig, isRacyClean=false, read=2025-02-25 12:52:59.759000000, lastModified=1970-01-01 00:00:00.000000000, delta=1740487979759000000 ns, racy<=2500000000 ns
02/25 12:53:01 DEBUG o.e.j.i.s.file.FileSnapshot:557 - file=/root/.gitconfig, is unmodified
02/25 12:53:01 DEBUG o.e.j.i.s.file.FileSnapshot:513 - file=/home/runner/work/experimental-career-work-master-thesis-atlantic-/experimental-career-work-master-thesis-atlantic-/.git/config, isRacyClean=false, read=2025-02-25 12:53:00.406000000, lastModified=2025-02-25 12:52:52.000000000, delta=8406000000 ns, racy<=2500000000 ns
02/25 12:53:01 DEBUG o.e.j.i.s.file.FileSnapshot:557 - file=/home/runner/work/experimental-career-work-master-thesis-atlantic-/experimental-

career-work-master-thesis-atlantic-/.git/config, is unmodified
02/25 12:53:01 DEBUG o.e.j.i.s.file.FileSnapshot:513 - file=/home/runner/work/experimental-career-work-master-thesis-atlantic-/experimental-career-work-master-thesis-atlantic-/.git/HEAD, isRacyClean=false, read=2025-02-25 12:53:00.431000000, lastModified=2025-02-25 12:52:52.000000000, delta=8431000000 ns, racy<=1251250000 ns
02/25 12:53:01 DEBUG o.e.j.i.s.file.FileSnapshot:557 - file=/home/runner/work/experimental-career-work-master-thesis-atlantic-/experimental-career-work-master-thesis-atlantic-/.git/HEAD, is unmodified
02/25 12:53:01 DEBUG o.e.j.i.s.file.FileSnapshot:513 - file=/home/runner/work/experimental-career-work-master-thesis-atlantic-/experimental-career-work-master-thesis-atlantic-/.git/refs/heads/main, isRacyClean=false, read=2025-02-25 12:53:00.431000000, lastModified=2025-02-25 12:52:52.000000000, delta=8431000000 ns, racy<=1251250000 ns
02/25 12:53:01 DEBUG o.e.j.i.s.file.FileSnapshot:557 - file=/home/runner/work/experimental-career-work-master-thesis-atlantic-/experimental-career-work-master-thesis-atlantic-/.git/refs/heads/main, is unmodified
02/25 12:53:01 DEBUG o.e.j.i.s.file.FileSnapshot:513 - file=/home/runner/work/experimental-career-work-master-thesis-atlantic-/experimental-career-work-master-thesis-atlantic-/.git/shallow, isRacyClean=false, read=2025-02-25 12:53:00.437000000, lastModified=2025-02-25 12:52:46.000000000, delta=14437000000 ns, racy<=1251250000 ns
02/25 12:53:01 DEBUG o.e.j.i.s.file.FileSnapshot:557 - file=/home/runner/work/experimental-career-work-master-thesis-atlantic-/experimental-career-work-master-thesis-atlantic-/.git/shallow, is unmodified
02/25 12:53:01 DEBUG o.e.j.i.s.file.FileSnapshot:272 - file=/home/runner/work/experimental-career-work-master-thesis-atlantic-/experimental-career-work-master-thesis-atlantic-/.git/config, create new FileSnapshot: lastRead=2025-02-25 12:53:01.080000000, lastModified=2025-02-25 12:52:52.000000000, size=454, fileKey=(dev=801,ino=2099793)
02/25 12:53:01 DEBUG o.e.j.i.s.file.FileSnapshot:550 - file=/root/.config/jgit/config.lock, cannot be racily clean
02/25 12:53:01 DEBUG o.e.j.i.s.file.FileSnapshot:513 - file=/root/.gitconfig, isRacyClean=false, read=2025-02-25 12:52:59.759000000, lastModified=1970-01-01 00:00:00.000000000, delta=1740487979759000000 ns, racy<=2500000000 ns
02/25 12:53:01 DEBUG o.e.j.i.s.file.FileSnapshot:557 - file=/root/.gitconfig, is unmodified
02/25 12:53:01 DEBUG o.e.j.i.s.file.FileSnapshot:272 - file=/home/runner/work/experimental-career-work-master-thesis-atlantic-/experimental-career-work-master-thesis-atlantic-/.git/config, create new FileSnapshot: lastRead=2025-02-25 12:53:01.081000000, lastModified=2025-02-25 12:52:52.000000000, size=454, fileKey=(dev=801,ino=2099793)
02/25 12:53:01 DEBUG o.e.j.i.s.file.FileSnapshot:550 - file=/root/.config/jgit/config.lock, cannot be racily clean
02/25 12:53:01 DEBUG o.e.j.i.s.file.FileSnapshot:513 - file=/root/.gitconfig, isRacyClean=false, read=2025-02-25 12:52:59.759000000, lastModified=1970-01-01 00:00:00.000000000, delta=1740487979759000000 ns, racy<=2500000000 ns
02/25 12:53:01 DEBUG o.e.j.i.s.file.FileSnapshot:557 - file=/root/.gitconfig, is unmodified
02/25 12:53:01 DEBUG o.e.j.i.s.file.FileSnapshot:513 - file=/home/runner/work/experimental-career-work-master-thesis-atlantic-/experimental-career-work-master-thesis-atlantic-/.git/config, isRacyClean=false, read=2025-02-25 12:53:01.081000000, lastModified=2025-02-25 12:52:52.000000000, delta=9081000000 ns, racy<=2500000000 ns
02/25 12:53:01 DEBUG o.e.j.i.s.file.FileSnapshot:557 - file=/home/runner/work/experimental-career-work-master-thesis-atlantic-/experimental-career-work-master-thesis-atlantic-/.git/config, is unmodified

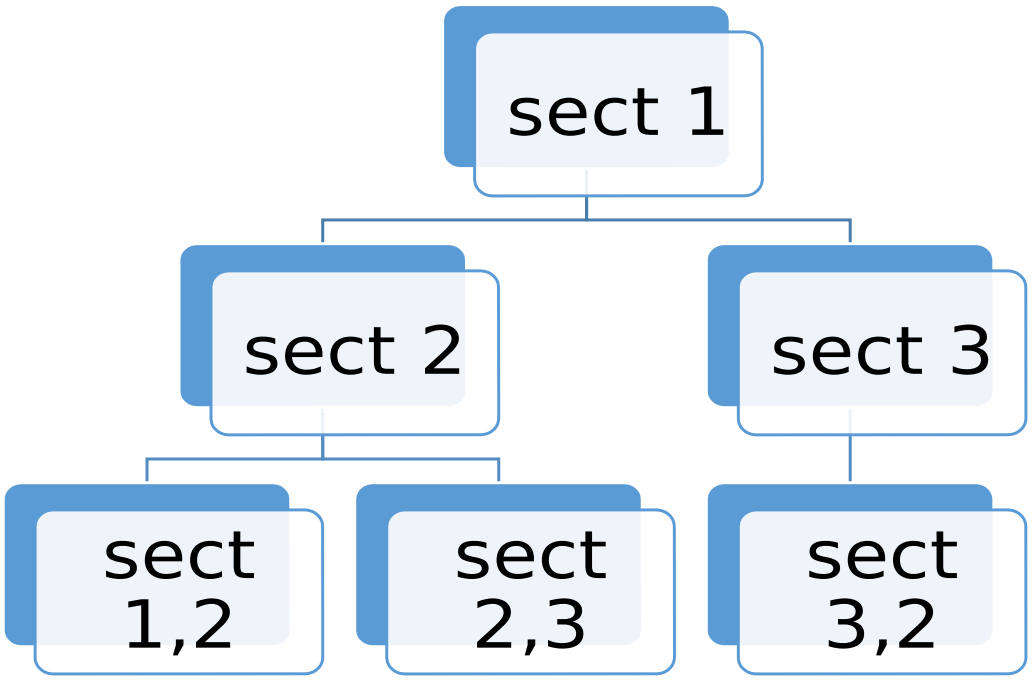
02/25 12:53:01 DEBUG o.e.j.i.s.file.FileSnapshot:272 - file=/home/runner/work/experimental-career-work-master-thesis-atlantic-/experimental-career-work-master-thesis-atlantic-/.git/index, create new FileSnapshot: lastRead=2025-02-25 12:53:01.083000000, lastModified=2025-02-25 12:52:52.000000000, size=2660, fileKey=(dev=801,ino=2099792)
02/25 12:53:01 DEBUG o.e.j.i.s.file.FileSnapshot:272 - file=/home/runner/work/experimental-career-work-master-thesis-atlantic-/experimental-career-work-master-thesis-atlantic-/.git/config, create new FileSnapshot: lastRead=2025-02-25 12:53:01.083000000, lastModified=2025-02-25 12:52:52.000000000, size=454, fileKey=(dev=801,ino=2099793)
02/25 12:53:01 DEBUG o.e.j.i.s.file.FileSnapshot:550 - file=/root/.config/jgit/config.lock, cannot be racily clean
02/25 12:53:01 DEBUG o.e.j.i.s.file.FileSnapshot:513 - file=/root/.gitconfig, isRacyClean=false, read=2025-02-25 12:52:59.759000000, lastModified=1970-01-01 00:00:00.000000000, delta=1740487979759000000 ns, racy<=2500000000 ns
02/25 12:53:01 DEBUG o.e.j.i.s.file.FileSnapshot:557 - file=/root/.gitconfig, is unmodified
02/25 12:53:01 DEBUG o.e.j.i.s.file.FileSnapshot:272 - file=/home/runner/work/experimental-career-work-master-thesis-atlantic-/experimental-career-work-master-thesis-atlantic-/.git/config, create new FileSnapshot: lastRead=2025-02-25 12:53:01.084000000, lastModified=2025-02-25 12:52:52.000000000, size=454, fileKey=(dev=801,ino=2099793)
02/25 12:53:01 DEBUG o.e.j.i.s.file.FileSnapshot:550 - file=/root/.config/jgit/config.lock, cannot be racily clean
02/25 12:53:01 DEBUG o.e.j.i.s.file.FileSnapshot:513 - file=/root/.gitconfig, isRacyClean=false, read=2025-02-25 12:52:59.759000000, lastModified=1970-01-01 00:00:00.000000000, delta=1740487979759000000 ns, racy<=2500000000 ns
02/25 12:53:01 DEBUG o.e.j.i.s.file.FileSnapshot:557 - file=/root/.gitconfig, is unmodified
02/25 12:53:01 DEBUG o.e.j.i.s.file.FileSnapshot:513 - file=/home/runner/work/experimental-career-work-master-thesis-atlantic-/experimental-career-work-master-thesis-atlantic-/.git/config, isRacyClean=false, read=2025-02-25 12:53:01.084000000, lastModified=2025-02-25 12:52:52.000000000, delta=9084000000 ns, racy<=2500000000 ns
02/25 12:53:01 DEBUG o.e.j.i.s.file.FileSnapshot:557 - file=/home/runner/work/experimental-career-work-master-thesis-atlantic-/experimental-career-work-master-thesis-atlantic-/.git/config, is unmodified
02/25 12:53:01 DEBUG o.e.j.i.s.file.FileSnapshot:272 - file=/home/runner/work/experimental-career-work-master-thesis-atlantic-/experimental-career-work-master-thesis-atlantic-/.git/index, create new FileSnapshot: lastRead=2025-02-25 12:53:01.089000000, lastModified=2025-02-25 12:52:52.000000000, size=2660, fileKey=(dev=801,ino=2099792)
02/25 12:53:01 DEBUG o.e.j.i.s.file.FileSnapshot:550 - file=/root/.config/jgit/config.lock, cannot be racily clean
02/25 12:53:01 DEBUG o.e.j.i.s.file.FileSnapshot:513 - file=/root/.gitconfig, isRacyClean=false, read=2025-02-25 12:52:59.759000000, lastModified=1970-01-01 00:00:00.000000000, delta=1740487979759000000 ns, racy<=2500000000 ns
02/25 12:53:01 DEBUG o.e.j.i.s.file.FileSnapshot:557 - file=/root/.gitconfig, is unmodified
02/25 12:53:01 DEBUG o.e.j.i.s.file.FileSnapshot:513 - file=/home/runner/work/experimental-career-work-master-thesis-atlantic-/experimental-career-work-master-thesis-atlantic-/.git/config, isRacyClean=false, read=2025-02-25 12:53:01.084000000, lastModified=2025-02-25 12:52:52.000000000, delta=9084000000 ns, racy<=2500000000 ns
02/25 12:53:01 DEBUG o.e.j.i.s.file.FileSnapshot:557 - file=/home/runner/work/experimental-career-work-master-thesis-atlantic-/experimental-career-work-master-thesis-atlantic-/.git/config, is unmodified
02/25 12:53:01 DEBUG o.e.j.i.s.file.FileSnapshot:272 -

file=/home/runner/work/experimental-career-work-master-thesis-atlantic-/experimental-career-work-master-thesis-atlantic-/.git/HEAD, create new FileSnapshot: lastRead=2025-02-25 12:53:01.092000000, lastModified=2025-02-25 12:52:52.000000000, size=21, fileKey=(dev=801,ino=2099805)
02/25 12:53:01 DEBUG o.e.j.i.s.file.FileSnapshot:272 - file=/home/runner/work/experimental-career-work-master-thesis-atlantic-/experimental-career-work-master-thesis-atlantic-/.git/refs/heads/main, create new FileSnapshot: lastRead=2025-02-25 12:53:01.093000000, lastModified=2025-02-25 12:52:52.000000000, size=41, fileKey=(dev=801,ino=2099802)
02/25 12:53:01 DEBUG o.e.j.i.s.file.FileSnapshot:550 - file=/root/.config/jgit/config.lock, cannot be racily clean
02/25 12:53:01 DEBUG o.e.j.i.s.file.FileSnapshot:513 - file=/root/.gitconfig, isRacyClean=false, read=2025-02-25 12:52:59.759000000, lastModified=1970-01-01 00:00:00.000000000, delta=1740487979759000000 ns, racy<=2500000000 ns
02/25 12:53:01 DEBUG o.e.j.i.s.file.FileSnapshot:557 - file=/root/.gitconfig, is unmodified
02/25 12:53:01 DEBUG o.e.j.i.s.file.FileSnapshot:513 - file=/home/runner/work/experimental-career-work-master-thesis-atlantic-/experimental-career-work-master-thesis-atlantic-/.git/config, isRacyClean=false, read=2025-02-25 12:53:01.084000000, lastModified=2025-02-25 12:52:52.000000000, delta=9084000000 ns, racy<=2500000000 ns
02/25 12:53:01 DEBUG o.e.j.i.s.file.FileSnapshot:557 - file=/home/runner/work/experimental-career-work-master-thesis-atlantic-/experimental-career-work-master-thesis-atlantic-/.git/config, is unmodified
02/25 12:53:01 DEBUG o.e.j.i.s.file.FileSnapshot:513 - file=/home/runner/work/experimental-career-work-master-thesis-atlantic-/experimental-career-work-master-thesis-atlantic-/.git/HEAD, isRacyClean=false, read=2025-02-25 12:53:01.092000000, lastModified=2025-02-25 12:52:52.000000000, delta=9092000000 ns, racy<=1251250000 ns
02/25 12:53:01 DEBUG o.e.j.i.s.file.FileSnapshot:557 - file=/home/runner/work/experimental-career-work-master-thesis-atlantic-/experimental-career-work-master-thesis-atlantic-/.git/HEAD, is unmodified
02/25 12:53:01 DEBUG o.e.j.i.s.file.FileSnapshot:513 - file=/home/runner/work/experimental-career-work-master-thesis-atlantic-/experimental-career-work-master-thesis-atlantic-/.git/refs/heads/main, isRacyClean=false, read=2025-02-25 12:53:01.093000000, lastModified=2025-02-25 12:52:52.000000000, delta=9093000000 ns, racy<=1251250000 ns
02/25 12:53:01 DEBUG o.e.j.i.s.file.FileSnapshot:557 - file=/home/runner/work/experimental-career-work-master-thesis-atlantic-/experimental-career-work-master-thesis-atlantic-/.git/refs/heads/main, is unmodified
02/25 12:53:01 DEBUG o.e.j.i.s.file.FileSnapshot:581 - file=null, size changed from -1 to 4096 bytes
02/25 12:53:01 DEBUG o.e.j.i.s.file.FileSnapshot:272 - file=/home/runner/work/experimental-career-work-master-thesis-atlantic-/experimental-career-work-master-thesis-atlantic-/.git/objects/pack, create new FileSnapshot: lastRead=2025-02-25 12:53:01.096000000, lastModified=2025-02-25 12:52:45.000000000, size=4096, fileKey=(dev=801,ino=2099727)
02/25 12:53:01 DEBUG o.e.j.i.s.file.FileSnapshot:513 - file=/home/runner/work/experimental-career-work-master-thesis-atlantic-/experimental-career-work-master-thesis-atlantic-/.git/objects/pack, isRacyClean=false, read=2025-02-25 12:53:01.096000000, lastModified=2025-02-25 12:52:45.000000000, delta=16096000000 ns, racy<=1251250000 ns
02/25 12:53:01 DEBUG o.e.j.i.s.file.FileSnapshot:557 - file=/home/runner/work/experimental-career-work-master-thesis-atlantic-/experimental-career-work-master-thesis-atlantic-/.git/objects/pack, is unmodified
02/25 12:53:01 DEBUG o.e.j.i.s.file.FileSnapshot:581 - file=null, size changed from -1 to 41

bytes
02/25 12:53:01 DEBUG o.e.j.i.s.file.FileSnapshot:272 - file=/home/runner/work/experimental-career-work-master-thesis-atlantic-/experimental-career-work-master-thesis-atlantic-/.git/shallow, create new FileSnapshot: lastRead=2025-02-25 12:53:01.097000000, lastModified=2025-02-25 12:52:46.000000000, size=41, fileKey=(dev=801,ino=2099730)
02/25 12:53:01 DEBUG o.e.j.i.s.file.FileSnapshot:550 - file=/root/.config/jgit/config.lock, cannot be racily clean
02/25 12:53:01 DEBUG o.e.j.i.s.file.FileSnapshot:513 - file=/root/.gitconfig, isRacyClean=false, read=2025-02-25 12:52:59.759000000, lastModified=1970-01-01 00:00:00.000000000, delta=1740487979759000000 ns, racy<=2500000000 ns
02/25 12:53:01 DEBUG o.e.j.i.s.file.FileSnapshot:557 - file=/root/.gitconfig, is unmodified
02/25 12:53:01 DEBUG o.e.j.i.s.file.FileSnapshot:513 - file=/home/runner/work/experimental-career-work-master-thesis-atlantic-/experimental-career-work-master-thesis-atlantic-/.git/config, isRacyClean=false, read=2025-02-25 12:53:01.084000000, lastModified=2025-02-25 12:52:52.000000000, delta=9084000000 ns, racy<=2500000000 ns
02/25 12:53:01 DEBUG o.e.j.i.s.file.FileSnapshot:557 - file=/home/runner/work/experimental-career-work-master-thesis-atlantic-/experimental-career-work-master-thesis-atlantic-/.git/config, is unmodified
02/25 12:53:01 DEBUG o.e.j.i.s.file.FileSnapshot:513 - file=/home/runner/work/experimental-career-work-master-thesis-atlantic-/experimental-career-work-master-thesis-atlantic-/.git/shallow, isRacyClean=false, read=2025-02-25 12:53:01.097000000, lastModified=2025-02-25 12:52:46.000000000, delta=15097000000 ns, racy<=1251250000 ns
02/25 12:53:01 DEBUG o.e.j.i.s.file.FileSnapshot:557 - file=/home/runner/work/experimental-career-work-master-thesis-atlantic-/experimental-career-work-master-thesis-atlantic-/.git/shallow, is unmodified
02/25 12:53:01 DEBUG o.e.j.i.s.file.FileSnapshot:513 - file=/home/runner/work/experimental-career-work-master-thesis-atlantic-/experimental-career-work-master-thesis-atlantic-/.git/objects/pack, isRacyClean=false, read=2025-02-25 12:53:01.096000000, lastModified=2025-02-25 12:52:45.000000000, delta=16096000000 ns, racy<=1251250000 ns
02/25 12:53:01 DEBUG o.e.j.i.s.file.FileSnapshot:557 - file=/home/runner/work/experimental-career-work-master-thesis-atlantic-/experimental-career-work-master-thesis-atlantic-/.git/objects/pack, is unmodified
02/25 12:53:01 DEBUG o.e.j.i.s.file.FileSnapshot:513 - file=/home/runner/work/experimental-career-work-master-thesis-atlantic-/experimental-career-work-master-thesis-atlantic-/.git/objects/pack, isRacyClean=false, read=2025-02-25 12:53:01.096000000, lastModified=2025-02-25 12:52:45.000000000, delta=16096000000 ns, racy<=1251250000 ns
02/25 12:53:01 DEBUG o.e.j.i.s.file.FileSnapshot:557 - file=/home/runner/work/experimental-career-work-master-thesis-atlantic-/experimental-career-work-master-thesis-atlantic-/.git/objects/pack, is unmodified
02/25 12:53:01 DEBUG o.e.j.i.s.file.FileSnapshot:513 - file=/home/runner/work/experimental-career-work-master-thesis-atlantic-/experimental-career-work-master-thesis-atlantic-/.git/objects/pack, isRacyClean=false, read=2025-02-25 12:53:01.096000000, lastModified=2025-02-25 12:52:45.000000000, delta=16096000000 ns, racy<=1251250000 ns
02/25 12:53:01 DEBUG o.e.j.i.s.file.FileSnapshot:557 - file=/home/runner/work/experimental-career-work-master-thesis-atlantic-/experimental-career-work-master-thesis-atlantic-/.git/objects/pack, is unmodified
02/25 12:53:01 DEBUG o.e.j.i.s.file.FileSnapshot:513 - file=/home/runner/work/experimental-career-work-master-thesis-atlantic-/experimental-career-work-master-thesis-atlantic-/.git/objects/pack, isRacyClean=false, read=2025-02-

25 12:53:01.096000000, lastModified=2025-02-25 12:52:45.000000000, delta=16096000000 ns, racy<=1251250000 ns
02/25 12:53:01 DEBUG o.e.j.i.s.file.FileSnapshot:557 - file=/home/runner/work/experimental-career-work-master-thesis-atlantic-/experimental-career-work-master-thesis-atlantic-/.git/objects/pack, is unmodified
02/25 12:53:01 INFO c.c.a.c.utils.LanguagesHelper:16 - No language found for drawing note Engineering rural note hydraulic.pdf
02/25 12:53:01 INFO c.c.a.c.utils.LanguagesHelper:16 - No language found for .gitignore
02/25 12:53:01 INFO c.c.a.c.utils.LanguagesHelper:16 - No language found for SBIR-STTR Submitted Project Pitch-00095759.pdf
02/25 12:53:01 INFO c.c.a.c.utils.LanguagesHelper:16 - No language found for SBIR-STTR Submitted Project Pitch-00098889.pdf
02/25 12:53:01 INFO c.c.a.c.utils.LanguagesHelper:16 - No language found for drawing .course AIU ...pdf
02/25 12:53:01 INFO c.c.a.c.utils.LanguagesHelper:16 - No language found for ip requested integrity thesis portofolio request commercial research book met.pdf
02/25 12:53:01 INFO c.c.a.c.utils.LanguagesHelper:16 - No language found for LICENSE
02/25 12:53:01 INFO c.c.a.c.utils.LanguagesHelper:16 - No language found for SBIR-STTR Submitted Project Pitch.pdf
02/25 12:53:01 INFO c.c.a.c.utils.LanguagesHelper:16 - No language found for drawing curriculum AIU.pdf
02/25 12:53:01 INFO c.c.a.c.utils.LanguagesHelper:16 - No language found for tshingombe tshitadi atlantic career ,, design.docx
02/25 12:53:01 INFO c.c.a.c.utils.LanguagesHelper:16 - No language found for drawing note total assessment energy rural,.pdf
02/25 12:53:01 INFO c.c.a.c.utils.LanguagesHelper:16 - No language found for workplace experimental ip request research met thesis aiu,,eaton microsofr eskom city power.pdf
02/25 12:53:01 INFO c.c.a.c.utils.LanguagesHelper:16 - No language found for drawing note energy rurale component .structe.pdf
02/25 12:53:01 INFO c.c.a.c.utils.LanguagesHelper:16 - No language found for drawing note , master energy rural component ...pdf
02/25 12:53:01 INFO c.c.a.c.utils.LanguagesHelper:16 - No language found for drawing note energy rural . discovery project.pdf
02/25 12:53:01 INFO c.c.a.c.utils.LanguagesHelper:16 - No language found for tshingombe tshitadi atlantic career ,, design.pdf
02/25 12:53:01 INFO c.c.a.c.utils.LanguagesHelper:16 - No language found for drawing note free hand ..pdf
02/25 12:53:01 INFO c.c.a.c.t.DuplicationToolCollector:81 - No duplication tools found for language Markdown
02/25 12:53:01 INFO c.c.a.c.t.DuplicationToolCollector:81 - No duplication tools found for language YAML
02/25 12:53:01 DEBUG CodacyPlugins:17 - codacy/codacy-metrics-cloc:0.2.4 doesn't exist locally.
02/25 12:53:01 INFO CodacyPlugins:26 - Verifying if docker image codacy/codacy-metrics-cloc:0.2.4 exists locally. took 53ms
02/25 12:53:06 INFO CodacyPlugins:26 - Pulling docker image codacy/codacy-metrics-cloc:0.2.4. took 4668ms
02/25 12:53:07 INFO CodacyPlugins:26 - Running docker image codacy/codacy-metrics-cloc:0.2.4. took 1186ms
02/25 12:53:07 INFO c.c.a.c.a.CodacyPluginsAnalyser:48 - Completed metrics for metrics with 1 results
02/25 12:53:07 INFO CodacyPlugins:26 - Verifying if docker image codacy/codacy-metrics-cloc:0.2.4 exists locally. took 31ms
02/25 12:53:08 INFO CodacyPlugins:26 - Running docker image codacy/codacy-metrics-cloc:0.2.4. took 1234ms

02/25 12:53:08 INFO c.c.a.c.a.CodacyPluginsAnalyser:48 - Completed metrics for metrics with 6 results
02/25 12:53:08 INFO c.c.a.c.a.AnalyseExecutor:192 - Could not find local extra configuration for remark-lint
02/25 12:53:08 INFO c.c.a.c.a.AnalyseExecutor:181 - Preparing to run remark-lint with defaults
02/25 12:53:08 INFO c.c.analysis.core.tools.Tool:101 - Using the root directory /home/runner/work/experimental-career-work-master-thesis-atlantic-/experimental-career-work-master-thesis-atlantic- to run
02/25 12:53:08 DEBUG CodacyPlugins:17 - codacy/codacy-remark-lint:2.5.8 doesn't exist locally.
02/25 12:53:08 INFO CodacyPlugins:26 - Verifying if docker image codacy/codacy-remark-lint:2.5.8 exists locally. took 32ms
02/25 12:53:14 INFO CodacyPlugins:26 - Pulling docker image codacy/codacy-remark-lint:2.5.8. took 5270ms
02/25 12:53:14 INFO CodacyPlugins:26 - Running docker image codacy/codacy-remark-lint:2.5.8. took 448ms
02/25 12:53:14 INFO c.c.a.c.a.CodacyPluginsAnalyser:28 - Completed analysis for remark-lint with 23 results
7s
Run github/codeql-action/upload-sarif@v3
with:
sarif_file: results.sarif
checkout_path: /home/runner/work/experimental-career-work-master-thesis-atlantic-/experimental-career-work-master-thesis-atlantic-
token: ***
<span class="gmail-CheckStep-line-co



...

nk you for the email and contacting the MPS "Data Office - Data Rights Unit datarights@met.police.uk". Our office is open Monday to Friday only, and this department is closed on bank holidays.

Please note that we receive a large volume of emails through this mailbox, and all emails are dealt within date order. So it may not be possible to respond to you by return. Therefore we ask you to please be patient and allow us some time to respond to you, before you contact us again. We will get back to you as soon as we can and we thank you again for your patience.

Please note that our response may come from the email address DataRightsDONOTREPLY@met.police.uk . To ensure that our responses are not sent to your spam folder, please add this email address to your safe senders list.

The following types of applications are processed within this mailbox;

- Right of Access Requests (Formerly Subject Access Requests)
- Freedom of Information Act Requests
- National Guidance on Data Sharing for National Police Chiefs' Council (NPCC) in respect of Association of British Insurers (ABI) v.2.2
- Right to Erasure and Right to Rectification Requests
- Requests under the Environmental Information Regulations 2000

If you have any other request/application that fall outside the above criteria, please understand that these do not fall under the scope of our services, and we will be unable to help you. Consequently those emails will be disregarded by us and no response will be sent to you. ***Therefore, it is advisable you redirect your request to the appropriate unit***. *Please see below contact detail that may help you re-direct your request to the appropriate unit.*

Traffic related request	• Any queries relating to Automated Speed or Red light offences with a reference number that commences 0013 please email SafetyCameraManagers@met.pnn.police.uk • Traffic Offence Reports or Officer issued tickets or offences with a reference number that commences 0012, 0015, 0016 or 0018 please email: fixedpenaltynoticeenquiries@met.pnn.police.uk For all other traffic related matters, please use the below forms and contact details on it (Met Prosecution, Po box 510, DA15 0BQ); • Form 518A - Request for Traffic Case Reference number (met.police.uk)

Personal Monthly Budget

PROJECTED MONTHLY INCOME	**Income 1**	$2,500
	Extra income	$500
	Total monthly income	**$3,000**
ACTUAL MONTHLY INCOME	**Income 1**	$2,500
	Extra income	$500
	Total monthly income	**$3,000**

PROJECTED BA expenses)
ACTUAL BALA
DIFFERENCE (

HOUSING	**Projected Cost**	**Actual Cost**	**Differen ce**
Mortgage or rent	$1,500	$1,400	$100
Phone	$60	$100	-$40
Electricity	$50	$60	-$10
Gas	$200	$180	$20
Water and sewer			$1,000
Cable			$1,000
Waste removal			$0
Maintenance or repairs			$0
Supplies			$0
Other			$0
Total	**$1,810**	**$1,740**	**$2,070**

ENTERTAINME
Video/DVD
CDs
Movies
Concerts
Sporting events
Live theater
Other
Other
Other
Total

LOANS
Personal

TRANSPORTATION	**Projected**	**Actual Cost**	**Differen**

	Cost		ce
Vehicle payment	$250	$250	$0
Bus/taxi fare			$0
Insurance			$0
Licensing			$0
Fuel			$0
Maintenance			$0
Other			$0
Total	**$250**	**$250**	**$0**

INSURANCE	**Projected Cost**	**Actual Cost**	**Difference**
Home			$0
Health			$0
Life			$0
Other			$0
Total	**$0**	**$0**	**$0**

FOOD	**Projected Cost**	**Actual Cost**	**Difference**
Groceries			$0
Dining out			$0
Other			$0
Total	**$0**	**$0**	**$0**

PETS	**Projected Cost**	**Actual Cost**	**Difference**
Food			$0
Medical			$0
Grooming			$0
Toys			$0
Other			$0
Total	**$0**	**$0**	**$0**

PERSONAL CARE	**Projected Cost**	**Actual Cost**	**Difference**
Medical			$0
Hair/nails			$0
Clothing			$0
Dry cleaning			$0

Student	
Credit card	
Credit card	
Credit card	
Other	
Total	

TAXES
Federal
State
Local
Other
Total

SAVINGS OR INVESTMENTS
Retirement acc
Investment acc
Other
Total

GIFTS AND DO
Charity 1
Charity 2
Charity 3
Total

LEGAL
Attorney
Alimony
Payments on lie judgment
Other
Total

TOTAL PROJEC

Health club			$0
Organization dues or fees			$0
Other			$0
Total	**$0**	**$0**	**$0**

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TOTAL DIFFER

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· Mailing List
· Help Centre
· Your Applications:

Applications

Sorry. This opportunity is expired. It is now too late to complete your application.

Title	Status	Action
Volunteer Police Cadet Leader	Application Update	ReviewVolunteer Police Cadet Leader

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- Mailing List
- Help Centre

- Your Applications:

Applications

Sorry. This opportunity is expired. It is now too late to complete your application.

Title	Status	Action
Volunteer Police Cadet Leader	Application Update	ReviewVolunteer Police Cadet Leader
Volunteer Police Cadet Leader	Application Update	ReviewVolunteer Police Cadet Leader
Vehicle Replacement Programme Manager - Band D - Counter Terrorism Policing HQ	Application Update	ReviewVehicle Replacement Programme Manager - Band D - Counter Terrorism Policing HQ
Twickenham DWP Recruitment Event	Registration Update	ReviewTwickenham DWP Recruitment Event
TSU Planner (DC) - Technical Intelligence Exploitation and Development team	Application Update	ReviewTSU Planner (DC) - Technical Intelligence Exploitation and Development team
Travel Services – Band C Service Delivery Manager	Application Update	ReviewTravel Services – Band C Service Delivery Manager
Thamesmead Recruitment Event	Registration Update	ReviewThamesmead Recruitment Event
Technology Lead - Data & Analysis - Counter Terrorism Policing HQ	Application Update	ReviewTechnology Lead - Data & Analysis - Counter Terrorism Policing HQ
Technical Training Manager - Technology CSC - Counter Terrorism Policing HQ	Application Update	ReviewTechnical Training Manager - Technology CSC - Counter Terrorism

		Policing HQ
Technical Training Manager - Technology CSC - Counter Terrorism Policing HQ	Application Update	ReviewTechnical Training Manager - Technology CSC - Counter Terrorism Policing HQ
Technical Support Operative	Application Update	ReviewTechnical Support Operative
Tactical Policy Advisor – Robbery and Knife Crime team-DC	Application Update	ReviewTactical Policy Advisor – Robbery and Knife Crime team-DC
Supplier Assurance Manager	Application Update	ReviewSupplier Assurance Manager
Supplier Assurance Lead	Application Update	ReviewSupplier Assurance Lead
Substantive Detective Inspector - DPS Specialist investigations	Application Update	ReviewSubstantive Detective Inspector - DPS Specialist investigations
Student Placement - Real Estate Development - Programme Support Officer 2025/2026	Application Update	ReviewStudent Placement - Real Estate Development - Programme Support Officer 2025/2026
Student Placement - Project Support Assistant - Strategy, Performance, and Planning - 2025/2026 - Counter Terrorism Policing HQ	Application Update	ReviewStudent Placement - Project Support Assistant - Strategy, Performance, and Planning - 2025/2026 - Counter Terrorism Policing HQ
Student Placement - Project Support Assistant - Change - 2025/2026 - Counter Terrorism Policing HQ	Application Update	ReviewStudent Placement - Project Support Assistant - Change - 2025/2026 - Counter Terrorism Policing HQ
Student Placement - Programme Support Officer – Real Estate Development, Property Services Department 2024/2025	Application Update	ReviewStudent Placement - Programme Support Officer – Real Estate Development, Property Services Department 2024/2025
Student Placement - Portfolio Office Assistant - Change - 2025/2026 - Counter Terrorism Policing HQ	Application Update	Review Student Placement - Portfolio Office Assistant - Change - 2025/2026 - Counter Terrorism Policing HQ
Student Placement - Performance Analyst - MO14 Performance	Application Update	ReviewStudent Placement - Performance Analyst - MO14 Performance
Student Placement - Media and Communication Administrator 2025/2026	Application Update	ReviewStudent Placement - Media and Communication Administrator 2025/2026
Student Placement - Junior Service Designer - Technology - 2025/2026 - Counter Terrorism Policing HQ	Application Update	ReviewStudent Placement - Junior Service Designer - Technology - 2025/2026 - Counter Terrorism Policing HQ
Student Placement - Junior Project Manager - Technology - 2025/2026 - Counter Terrorism Policing HQ	Application Update	ReviewStudent Placement - Junior Project Manager - Technology - 2025/2026 - Counter Terrorism Policing HQ
Student Placement - Junior	Application	ReviewStudent Placement - Junior

DevOps Engineer - Technology - 2025/2026 - Counter Terrorism Policing HQ	Update	DevOps Engineer - Technology - 2025/2026 - Counter Terrorism Policing HQ
Student Placement - Forensic Business Assistant 2025/2026	Application Update	ReviewStudent Placement - Forensic Business Assistant 2025/2026
Student Placement - Estate and Asset Management Placement Student – Real Estate Management, Property Services Department 2024/2025	Application Update	ReviewStudent Placement - Estate and Asset Management Placement Student – Real Estate Management, Property Services Department 2024/2025
Student Placement - Construction and Building Engineering Services - Real Estate Development , Property Services Department 2024/2025	Application Update	ReviewStudent Placement - Construction and Building Engineering Services - Real Estate Development , Property Services Department 2024/2025
Student Placement - Construction and Building Engineering 2025/2026	Application Update	ReviewStudent Placement - Construction and Building Engineering 2025/2026
Student Placement - Communications Assistant - 2025/2026 - Communications - Counter Terrorism Policing HQ	Application Update	ReviewStudent Placement - Communications Assistant - 2025/2026 - Communications - Counter Terrorism Policing HQ
Student Placement - Business Change Assistant - Change - 2025/2026 - Counter Terrorism Policing HQ	Application Update	ReviewStudent Placement - Business Change Assistant - Change - 2025/2026 - Counter Terrorism Policing HQ
Student Placement - Borders Assistant - Borders Operations Centre - 2025/2026 Counter Terrorism Policing HQ	Application Update	ReviewStudent Placement - Borders Assistant - Borders Operations Centre - 2025/2026 Counter Terrorism Policing HQ
Student Placement - Assurance and Standards Team Assistant - Change - 2025/2026 - Counter Terrorism Policing HQ	Application Update	ReviewStudent Placement - Assurance and Standards Team Assistant - Change - 2025/2026 - Counter Terrorism Policing HQ
Student Placement - Associate End User Computing Engineer - Technology - 2025/2026 - Counter Terrorism Policing HQ	Application Update	ReviewStudent Placement - Associate End User Computing Engineer - Technology - 2025/2026 - Counter Terrorism Policing HQ
Student Placement - Analysis & Research Assistant - Data & Analysis - 2025/2026- Counter Terrorism Policing HQ	Application Update	ReviewStudent Placement - Analysis & Research Assistant - Data & Analysis - 2025/2026- Counter Terrorism Policing HQ
Student Placement - Accredited Financial Investigator - 2025/2026	Application Update	ReviewStudent Placement - Accredited Financial Investigator - 2025/2026
Student Placement - Project / Research Assistant - Data & Analysis - 2025/2026 -Counter Terrorism Policing HQ	Application Update	ReviewStudent Placement - Project / Research Assistant - Data & Analysis - 2025/2026 -Counter Terrorism Policing HQ
Strategy and Local	Application	ReviewStrategy and Local

Communications Manager(FTC for 12month)	Update	Communications Manager(FTC for 12month)
Strategy and Local Communications Manager	Application Update	ReviewStrategy and Local Communications Manager
Staff Officer to Director of Intelligence & Covert Policing	Application Update	ReviewStaff Officer to Director of Intelligence & Covert Policing
Staff Officer to Director General - Detective Inspector - SLT - Counter Terrorism Policing HQ	Application Update	ReviewStaff Officer to Director General - Detective Inspector - SLT - Counter Terrorism Policing HQ
Staff Officer to Director General - Band C - SLT - Counter Terrorism Policing HQ	Application Update	ReviewStaff Officer to Director General - Band C - SLT - Counter Terrorism Policing HQ
SQL Server Database Administrator - Counter Terrorism Policing HQ	Application Update	ReviewSQL Server Database Administrator - Counter Terrorism Policing HQ
SQL Server Database Administrator - Counter Terrorism Policing HQ	Application Update	ReviewSQL Server Database Administrator - Counter Terrorism Policing HQ
Specialist Operations Recovery Manager	Application Update	ReviewSpecialist Operations Recovery Manager
Specialist Operations Recovery Driver - Perivale Car Pound	Application Update	ReviewSpecialist Operations Recovery Driver - Perivale Car Pound
Specialist Crime - North - Homicide Barking - HOLMES Typist	Application Update	ReviewSpecialist Crime - North - Homicide Barking - HOLMES Typist
SIU - Developing Threats Team - Detective Sergeant	Application Update	ReviewSIU - Developing Threats Team - Detective Sergeant
Shift Team – CJ Offender Management Services	Application Update	ReviewShift Team – CJ Offender Management Services
Service Design and Transition Manager - Band C - Technology - Counter Terrorism Policing HQ	Application Update	ReviewService Design and Transition Manager - Band C - Technology - Counter Terrorism Policing HQ
Server Engineer - Technology - CSC - Counter Terrorism Policing HQ	Application Update	ReviewServer Engineer - Technology - CSC - Counter Terrorism Policing HQ
Senior Server Engineer - Counter Terrorism Policing HQ	Application Update	ReviewSenior Server Engineer - Counter Terrorism Policing HQ
Senior Safety Advisor First Aid	Application Update	ReviewSenior Safety Advisor First Aid
Senior Project Manager, Met Business & Operational Support Services	Application Update	ReviewSenior Project Manager, Met Business & Operational Support Services
Senior Project Manager - Change - Counter Terrorism Policing HQ	Application Update	ReviewSenior Project Manager - Change - Counter Terrorism Policing HQ
Senior Project Manager	Application Update	ReviewSenior Project Manager
Senior Project Manager	Application Update	ReviewSenior Project Manager
Senior MetLaw Officer	Application	ReviewSenior MetLaw Officer

	Update	
Senior Media Officer	Application Update	ReviewSenior Media Officer
Senior Manager - Biometrics (Band B)	Application Update	ReviewSenior Manager - Biometrics (Band B)
Senior HR Policy Lead	Application Update	ReviewSenior HR Policy Lead
Senior HR Business Advisor	Application Update	ReviewSenior HR Business Advisor
Senior Development Operations Engineer - Band M - Counter Terrorism Policing HQ	Application Update	ReviewSenior Development Operations Engineer - Band M - Counter Terrorism Policing HQ
Senior Design Standards Manager	Application Update	ReviewSenior Design Standards Manager
Senior Content, Channels and Engagement Officer	Application Update	ReviewSenior Content, Channels and Engagement Officer
Senior Application Operations Engineer -Technology CSC - Counter Terrorism Policing HQ	Application Update	ReviewSenior Application Operations Engineer -Technology CSC - Counter Terrorism Policing HQ
Senior Administrative Assistant	Application Update	ReviewSenior Administrative Assistant
Security Assurance Manager	Application Update	ReviewSecurity Assurance Manager
Secure: Programme Delivery Senior Manager	Application Update	ReviewSecure: Programme Delivery Senior Manager
Safety Camera Prosecutions Team Manager	Application Update	ReviewSafety Camera Prosecutions Team Manager
Safety Camera Prosecutions Manager	Application Update	ReviewSafety Camera Prosecutions Manager
Safety Camera Processing Clerk	Application Update	ReviewSafety Camera Processing Clerk
Safety Academy QUAD Officer	Application Update	ReviewSafety Academy QUAD Officer
Royalty and Specialist Protection - RaSP 400 Inspector	Application Update	ReviewRoyalty and Specialist Protection - RaSP 400 Inspector
Royalty and Specialist Protection - Finance Administrator	Application Update	ReviewRoyalty and Specialist Protection - Finance Administrator
Royalty and Specialist Protection - Finance Administrator	Application Update	ReviewRoyalty and Specialist Protection - Finance Administrator
Review Officer	Application Update	ReviewReview Officer
Resourcing Assistant	Application Update	ReviewResourcing Assistant
Resource Management Office Manager	Application Update	ReviewResource Management Office Manager
Research Officer for Intelligence Development Team (East) - Band E Role	Application Update	ReviewResearch Officer for Intelligence Development Team (East) - Band E Role
Referencing & Vetting Insight and Governance Team Member	Application Update	ReviewReferencing & Vetting Insight and Governance Team Member

Referencing & Vetting Insight and Governance Team Member	Application Update	ReviewReferencing & Vetting Insight and Governance Team Member
Real Time Resourcing Desk Constable	Application Update	ReviewReal Time Resourcing Desk Constable
Real Time Resource Desk Sergeant	Application Update	ReviewReal Time Resource Desk Sergeant
RaSP Armed Deployment Management Unit (ADMU) PC	Application Update	ReviewRaSP Armed Deployment Management Unit (ADMU) PC
RAID Manager - Change - Counter Terrorism Policing HQ	Application Update	ReviewRAID Manager - Change - Counter Terrorism Policing HQ
Quality System Auditor	Application Update	ReviewQuality System Auditor
Quality Assurance Operative	Application Update	ReviewQuality Assurance Operative
Quality Assurance Lead	Application Update	ReviewQuality Assurance Lead
Quality Assurance Lead	Application Update	ReviewQuality Assurance Lead
PSO - Threat Assessment & Intelligence Unit - Intelligence Officer – Researcher	Application Update	ReviewPSO - Threat Assessment & Intelligence Unit - Intelligence Officer – Researcher
ProtectUK Head of Digital Delivery Unit - NaCTSO - Counter Terrorism Policing HQ.	Application Update	ReviewProtectUK Head of Digital Delivery Unit - NaCTSO - Counter Terrorism Policing HQ.
ProtectUK Head of Digital Content & Editorial - NaCTSO - Counter Terrorism Policing HQ	Application Update	ReviewProtectUK Head of Digital Content & Editorial - NaCTSO - Counter Terrorism Policing HQ
Project Support Officer	Application Update	ReviewProject Support Officer
Project Manager	Application Update	ReviewProject Manager
Project Adder - PC	Application Update	ReviewProject Adder - PC
Programme Support Officer	Application Update	ReviewProgramme Support Officer
Programme Manager - Change - Counter Terrorism Policing HQ	Application Update	ReviewProgramme Manager - Change - Counter Terrorism Policing HQ
Programme Management Office Administrator	Application Update	ReviewProgramme Management Office Administrator
Professional Standards Unit (MO12/MO4/CRIB) Band D	Application Update	ReviewProfessional Standards Unit (MO12/MO4/CRIB) Band D
Professional Standards - Misconduct Hearings Unit - Case Manager	Application Update	ReviewProfessional Standards - Misconduct Hearings Unit - Case Manager
Pound Officer Perivale	Application Update	ReviewPound Officer Perivale
Police Sergeant – Proactive Firearms Team	Application Update	ReviewPolice Sergeant – Proactive Firearms Team
Police prosecutor	Application Update	ReviewPolice prosecutor

Police prosecutor	Application Update	ReviewPolice prosecutor
Police Liaison Gateway Team	Application Update	ReviewPolice Liaison Gateway Team
Police Constable – Proactive Firearms Team Tasking & Co-ordination	Application Update	ReviewPolice Constable – Proactive Firearms Team Tasking & Co-ordination
Police Constable DPS - Professional Standard Unit	Application Update	ReviewPolice Constable DPS - Professional Standard Unit
POLICE CONSTABLE - CYBER CRIME PROACTIVE UNIT	Application Update	ReviewPOLICE CONSTABLE - CYBER CRIME PROACTIVE UNIT
PMO Lead - Change - Counter Terrorism Policing HQ	Application Update	ReviewPMO Lead - Change - Counter Terrorism Policing HQ
Performance and Assurance Team Member	Application Update	ReviewPerformance and Assurance Team Member
People & Development Lead, Operational Support Services	Application Update	ReviewPeople & Development Lead, Operational Support Services
PC Facial Recognition Technologies Team	Application Update	ReviewPC Facial Recognition Technologies Team
PC - MO6 Public Order Crime Team	Application Update	ReviewPC - MO6 Public Order Crime Team
PC - Covert Human Intelligence Source (CHIS) Handler	Application Update	ReviewPC - Covert Human Intelligence Source (CHIS) Handler
PA to DCS Band E	Application Update	ReviewPA to DCS Band E
Outreach Support	Talent Bank - Withdrawn	ReviewOutreach Support
Operations Support Officer	Application Update	ReviewOperations Support Officer
Operations Manager	Application Update	ReviewOperations Manager
Operations Lead - Superintendent	Application Update	ReviewOperations Lead - Superintendent
Operations Inspector	Application Update	ReviewOperations Inspector
Op Ford - Force Elected Official Advisor (FEOA) - Constable PaDP	Application Update	ReviewOp Ford - Force Elected Official Advisor (FEOA) - Constable PaDP
Online Insight Session	Registration Update	ReviewOnline Insight Session
Online Insight Session	Registration Update	ReviewOnline Insight Session
Office Manager - Band D - MIR - SO15	Application Update	ReviewOffice Manager - Band D - MIR - SO15
NPPF Step Two May 2024 Legal Exam - (Previously OSPRE) – Inspectors	Application Update	ReviewNPPF Step Two May 2024 Legal Exam - (Previously OSPRE) – Inspectors
NPPF Step Two March 2025 Legal Exam (Previously OSPRE) - Sergeant	Application Update	ReviewNPPF Step Two March 2025 Legal Exam (Previously OSPRE) - Sergeant

NPoCC Planner - Band E	Application Withdrawn	ReviewNPoCC Planner - Band E
New Scotland Yard Insight Session	Registration Update	ReviewNew Scotland Yard Insight Session
NCPP - CTSFO National Training Manager - Inspector - Counter Terrorism Policing HQ	Application Update	ReviewNCPP - CTSFO National Training Manager - Inspector - Counter Terrorism Policing HQ
National Surveillance Scheduling Team and Capability Support - Detective Inspector - Counter Terrorism Policing HQ	Application Update	ReviewNational Surveillance Scheduling Team and Capability Support - Detective Inspector - Counter Terrorism Policing HQ
National Referral Mechanism Coordinator	Application Update	ReviewNational Referral Mechanism Coordinator
National Police Chiefs' Council - National Serious & Organised Crime Portfolio (NSOC) Project Manager	Application Update	ReviewNational Police Chiefs' Council - National Serious & Organised Crime Portfolio (NSOC) Project Manager
National Police Chiefs Council - Programme Manager	Application Update	ReviewNational Police Chiefs Council - Programme Manager
National Police Chiefs Council - Programme Manager	Application Update	ReviewNational Police Chiefs Council - Programme Manager
National Police Chiefs Council - Internal Communications Manager	Application Update	ReviewNational Police Chiefs Council - Internal Communications Manager
National Investigators Examination (NIE) - 3rd June 2025	Application Update	ReviewNational Investigators Examination (NIE) - 3rd June 2025
National Firearms Instructor (NFI)	Application Update	ReviewNational Firearms Instructor (NFI)
National Counter Terrorism Security Office (NaCTSO) – Venues and Public Spaces Unit- Detective Inspector - Counter Terrorism Policing HQ	Application Update	ReviewNational Counter Terrorism Security Office (NaCTSO) – Venues and Public Spaces Unit- Detective Inspector - Counter Terrorism Policing HQ
Motorcycle Technician	Application Update	ReviewMotorcycle Technician
Motor Vehicle Technician	Application Update	ReviewMotor Vehicle Technician
Motor Vehicle Technician	Application Update	ReviewMotor Vehicle Technician
Motor Vehicle Technician	Application Update	ReviewMotor Vehicle Technician
MO7 Taskforce TSG -Police Sergeant	Application Update	ReviewMO7 Taskforce TSG -Police Sergeant
MO7 Taskforce Mounted Branch Inspector	Application Update	ReviewMO7 Taskforce Mounted Branch Inspector
MO3 Technical Surveillance Unit-DC - AV Ops	Application Update	ReviewMO3 Technical Surveillance Unit-DC - AV Ops
MO2 Met Intel - ANPR Auditor - Innovation Deployment & Compliance Team	Application Update	ReviewMO2 Met Intel - ANPR Auditor - Innovation Deployment & Compliance Team

MO19 Specialist Firearms Command – Development, Delivery, Equipment & Finance Sergeant	Application Update	ReviewMO19 Specialist Firearms Command – Development, Delivery, Equipment & Finance Sergeant
MO19 Specialist Firearms Command - Tactical Firearms Commander Inspector (UNARMED)	Application Update	ReviewMO19 Specialist Firearms Command - Tactical Firearms Commander Inspector (UNARMED)
MO19 Specialist Firearms Command - Tactical Firearms Commander Detective Inspector (UNARMED)	Application Update	ReviewMO19 Specialist Firearms Command - Tactical Firearms Commander Detective Inspector (UNARMED)
MMU Vehicle Technician	Application Update	ReviewMMU Vehicle Technician
Misconduct Hearings Unit - Usher	Application Update	ReviewMisconduct Hearings Unit - Usher
MetLaw Clerk	Application Update	ReviewMetLaw Clerk
MetLaw and Allocations Clerk	Application Update	ReviewMetLaw and Allocations Clerk
MetCC Workforce Management Lead	Application Update	ReviewMetCC Workforce Management Lead
MetCC Welfare Support Team Supervisor	Application Update	ReviewMetCC Welfare Support Team Supervisor
MetCC Welfare Support Team Member	Application Update	ReviewMetCC Welfare Support Team Member
MetCC Centre Facilities Support Staff	Application Update	ReviewMetCC Centre Facilities Support Staff
MetCC Centre Facilities Supervisor	Application Update	ReviewMetCC Centre Facilities Supervisor
Met Intel PC ANPR Investigations	Application Update	ReviewMet Intel PC ANPR Investigations
Met Intel DS ANPR Investigations	Application Update	ReviewMet Intel DS ANPR Investigations
Met Intel 24/7 Intelligence Officer	Application Update	ReviewMet Intel 24/7 Intelligence Officer
Met Intel 24/7 - Intelligence Supervisor	Application Update	ReviewMet Intel 24/7 - Intelligence Supervisor
Met Intel 24/7 - Intelligence Manager - Duty Officer	Application Update	ReviewMet Intel 24/7 - Intelligence Manager - Duty Officer
Met Business Services - Talent Acquisition Manager	Application Update	ReviewMet Business Services - Talent Acquisition Manager
Met Business Services - Talent Acquisition Lead	Application Update	ReviewMet Business Services - Talent Acquisition Lead
Media Officer	Application Update	ReviewMedia Officer
MBS Reporting Senior Analyst	Application Update	ReviewMBS Reporting Senior Analyst
LMS Administrator	Application Update	ReviewLMS Administrator
Licensing and Accreditation	Application	ReviewLicensing and Accreditation

Training Development Officer - VAP's (NaCTSO) - Counter Terrorism Policing HQ	Update	Training Development Officer - VAP's (NaCTSO) - Counter Terrorism Policing HQ
Licensing Admin Support Officer	Application Update	ReviewLicensing Admin Support Officer
Leadership Facilitator	Application Withdrawn	ReviewLeadership Facilitator
Leadership Academy Trainer/Facilitator	Application Update	ReviewLeadership Academy Trainer/Facilitator
Leadership Academy Administration/Team Support	Application Update	ReviewLeadership Academy Administration/Team Support
Leadership Academy Administration/Team Supervisor	Application Update	ReviewLeadership Academy Administration/Team Supervisor
Lead Software Developer - Counter Terrorism Policing HQ	Application Update	ReviewLead Software Developer - Counter Terrorism Policing HQ
Lead Dev Ops Engineer (Cloud Platform) - Technology CSC - Police Staff - Counter Terrorism Policing HQ	Application Update	ReviewLead Dev Ops Engineer (Cloud Platform) - Technology CSC - Police Staff - Counter Terrorism Policing HQ
Lead Data Analyst in the Strategic Insight Unit	Application Update	ReviewLead Data Analyst in the Strategic Insight Unit
Junior Software Developer - Counter Terrorism Policing HQ	Application Update	ReviewJunior Software Developer - Counter Terrorism Policing HQ
Junior Data Engineer	Application Update	ReviewJunior Data Engineer
Interest in being promoted to a Sergeant? Register your interest here and we will notify you when the promotion process launches.	Talent Bank - Withdrawn	ReviewInterest in being promoted to a Sergeant? Register your interest here and we will notify you when the promotion process launches.
Interest in being promoted to a Chief Superintendent? Register your interest here and we will notify you when the promotion process launches.	Talent Bank - Withdrawn	ReviewInterest in being promoted to a Chief Superintendent? Register your interest here and we will notify you when the promotion process launches.
Intelligence Officer - Public Order Public Safety Intelligence - MO2	Application Update	ReviewIntelligence Officer - Public Order Public Safety Intelligence - MO2
Intelligence Officer - PC - Intelligence - Counter Terrorism Policing HQ	Application Update	ReviewIntelligence Officer - PC - Intelligence - Counter Terrorism Policing HQ
Intelligence Officer - DC - Intelligence - Counter Terrorism Policing HQ	Application Update	ReviewIntelligence Officer - DC - Intelligence - Counter Terrorism Policing HQ
Intelligence Officer - Bomb Data Centre - FMT - SO15	Application Update	ReviewIntelligence Officer - Bomb Data Centre - FMT - SO15
Intelligence Manager – Public Order & Public Safety Intelligence - Inspector – MO2	Application Update	ReviewIntelligence Manager – Public Order & Public Safety Intelligence - Inspector – MO2
Intelligence Manager - Public Order & Public Safety Intelligence	Application Update	ReviewIntelligence Manager - Public Order & Public Safety Intelligence -

- Detective Inspector - MO2		Detective Inspector - MO2
Inspector to Chief Inspector Promotion Process 2024	Application Update	ReviewInspector to Chief Inspector Promotion Process 2024
Inspector - NPoCC SIB	Application Update	ReviewInspector - NPoCC SIB
Insight, Data and Evaluation Senior Manager	Application Update	ReviewInsight, Data and Evaluation Senior Manager
Infrastructure Engineer	Application Update	ReviewInfrastructure Engineer
IDD - Junior Business Design Analyst	Application Update	ReviewIDD - Junior Business Design Analyst
Hub Coordination Team Manager - Band D - Prisons - Counter Terrorism Policing HQ	Application Update	ReviewHub Coordination Team Manager - Band D - Prisons - Counter Terrorism Policing HQ
HR Performance and Reporting Manager	Application Update	ReviewHR Performance and Reporting Manager
HR Performance and Reporting Lead	Application Update	ReviewHR Performance and Reporting Lead
HR People Performance Improvement Team – Senior Lead	Application Update	ReviewHR People Performance Improvement Team – Senior Lead
HR People Performance Improvement Team – Senior Lead	Application Update	ReviewHR People Performance Improvement Team – Senior Lead
HR Change Support Officer	Application Update	ReviewHR Change Support Officer
HR Administrator - Counter Terrorism Policing HQ	Application Update	ReviewHR Administrator - Counter Terrorism Policing HQ
HOLMES Typist	Application Update	ReviewHOLMES Typist
Higher Performance Analyst - Strategy, Planning & Performance - Counter Terrorism Policing HQ	Application Update	ReviewHigher Performance Analyst - Strategy, Planning & Performance - Counter Terrorism Policing HQ
Higher Computer Aided Surveyor / 3D Specialist	Application Update	ReviewHigher Computer Aided Surveyor / 3D Specialist
Health & Safety/Estates Manager - Band D - Counter Terrorism Policing HQ	Application Update	ReviewHealth & Safety/Estates Manager - Band D - Counter Terrorism Policing HQ
Head of Visits and Events	Application Update	ReviewHead of Visits and Events
Head of Visits and Events	Application Update	ReviewHead of Visits and Events
Head of Security Architecture	Application Update	ReviewHead of Security Architecture
Head of Portfolio Office (Met Business & Operational Support Services)	Application Update	ReviewHead of Portfolio Office (Met Business & Operational Support Services)
Head of Portfolio Office (Met Business & Operational Support Services)	Application Update	ReviewHead of Portfolio Office (Met Business & Operational Support Services)
Head of Data Literacy and Culture	Application Update	ReviewHead of Data Literacy and Culture

Head of Data Engineering	Application Update	ReviewHead of Data Engineering
Grievance Assessor	Application Update	ReviewGrievance Assessor
Forensic Scientist	Application Update	ReviewForensic Scientist
Forensic Management Team - Ops Support - Detective Sergeant - Counter Terrorism Policing SO15	Application Update	ReviewForensic Management Team - Ops Support - Detective Sergeant - Counter Terrorism Policing SO15
Forensic Examiner – Forensic Firearms Unit (FFU)	Application Update	ReviewForensic Examiner – Forensic Firearms Unit (FFU)
Forensic Collision Investigator – Trainee	Application Update	ReviewForensic Collision Investigator – Trainee
Fleet Contract Lifecycle Support	Application Withdrawn	ReviewFleet Contract Lifecycle Support
Fleet Administrator	Application Update	ReviewFleet Administrator
Fingerprint Team Leader	Application Update	ReviewFingerprint Team Leader
Financial Investigator	Application Update	ReviewFinancial Investigator
Finance Business Partner - Band M	Application Update	ReviewFinance Business Partner - Band M
Facial Identification Intelligence Researcher	Application Update	ReviewFacial Identification Intelligence Researcher
Facial Identification Intelligence Research Supervisor	Application Update	ReviewFacial Identification Intelligence Research Supervisor
Experienced Intelligence Analyst	Application Update	ReviewExperienced Intelligence Analyst
Equip for Service (EFS) Coordinator	Application Update	ReviewEquip for Service (EFS) Coordinator
Equality Impact Assessment Manager	Application Update	ReviewEquality Impact Assessment Manager
Enquiry Officer	Application Update	ReviewEnquiry Officer
Electronics Senior Technologist	Application Update	ReviewElectronics Senior Technologist
Electronics Development Manager	Application Update	ReviewElectronics Development Manager
Electronics Development Manager	Application Update	ReviewElectronics Development Manager
Electronics Development Engineer	Application Update	ReviewElectronics Development Engineer
Electronics Development Engineer	Application Update	ReviewElectronics Development Engineer
Electronics Development Engineer	Application Update	ReviewElectronics Development Engineer
Electronics Development Engineer	Application Update	ReviewElectronics Development Engineer
Edmonton Insight Session	Registration Update	ReviewEdmonton Insight Session

DS - Public Order Crime Team	Application Update	ReviewDS - Public Order Crime Team
Driver Assistance Centre Team Leader	Application Update	ReviewDriver Assistance Centre Team Leader
DPS Intelligence Bureau - Integrity Screening Unit - Detective Constable (Substantive)	Application Update	ReviewDPS Intelligence Bureau - Integrity Screening Unit -Detective Constable (Substantive)
DPS Digital Exploitation Team: Digital Intelligence Analyst - Anti-Corruption and Abuse Command	Application Update	ReviewDPS Digital Exploitation Team: Digital Intelligence Analyst - Anti-Corruption and Abuse Command
DNA Services Consultant - BIOMETRICS UNIT (Band L)	Application Update	ReviewDNA Services Consultant - BIOMETRICS UNIT (Band L)
Distribution Driver	Application Update	ReviewDistribution Driver
Disruptions & APMIS Lead	Application Update	ReviewDisruptions & APMIS Lead
Disclosure Support (deputy to Disclosure Manager, Economic Crime)	Application Update	ReviewDisclosure Support (deputy to Disclosure Manager, Economic Crime)
Digital Strategy Advisor - Digital Forensics	Application Update	ReviewDigital Strategy Advisor - Digital Forensics
Digital Strategy Advisor - Digital Forensics	Application Update	ReviewDigital Strategy Advisor - Digital Forensics
Digital Project Officer - NDES Service 3 - SO15	Application Update	ReviewDigital Project Officer - NDES Service 3 - SO15
Digital Operations - Digital Investigator (DMI) - PC	Application Update	ReviewDigital Operations - Digital Investigator (DMI) - PC
Digital Forensic Technician	Application Update	ReviewDigital Forensic Technician
Digital Forensic Manager	Application Update	ReviewDigital Forensic Manager
Digital Engagement Officer	Application Update	ReviewDigital Engagement Officer
Development Technician - Software Developer	Application Update	ReviewDevelopment Technician - Software Developer
Development Technician - Software Developer	Application Update	ReviewDevelopment Technician - Software Developer
Development Operations Engineer - Band N - Counter Terrorism Policing HQ	Application Update	ReviewDevelopment Operations Engineer - Band N - Counter Terrorism Policing HQ
Development Engineer - Software Developer	Application Update	ReviewDevelopment Engineer - Software Developer
Development Engineer	Application Update	ReviewDevelopment Engineer
Development Engineer	Application Update	ReviewDevelopment Engineer
Developing Threats Team – PC	Application Update	ReviewDeveloping Threats Team – PC
Dev Ops Engineer (Cloud Platform) - Technology CSC -	Application Update	ReviewDev Ops Engineer (Cloud Platform) - Technology CSC - Police

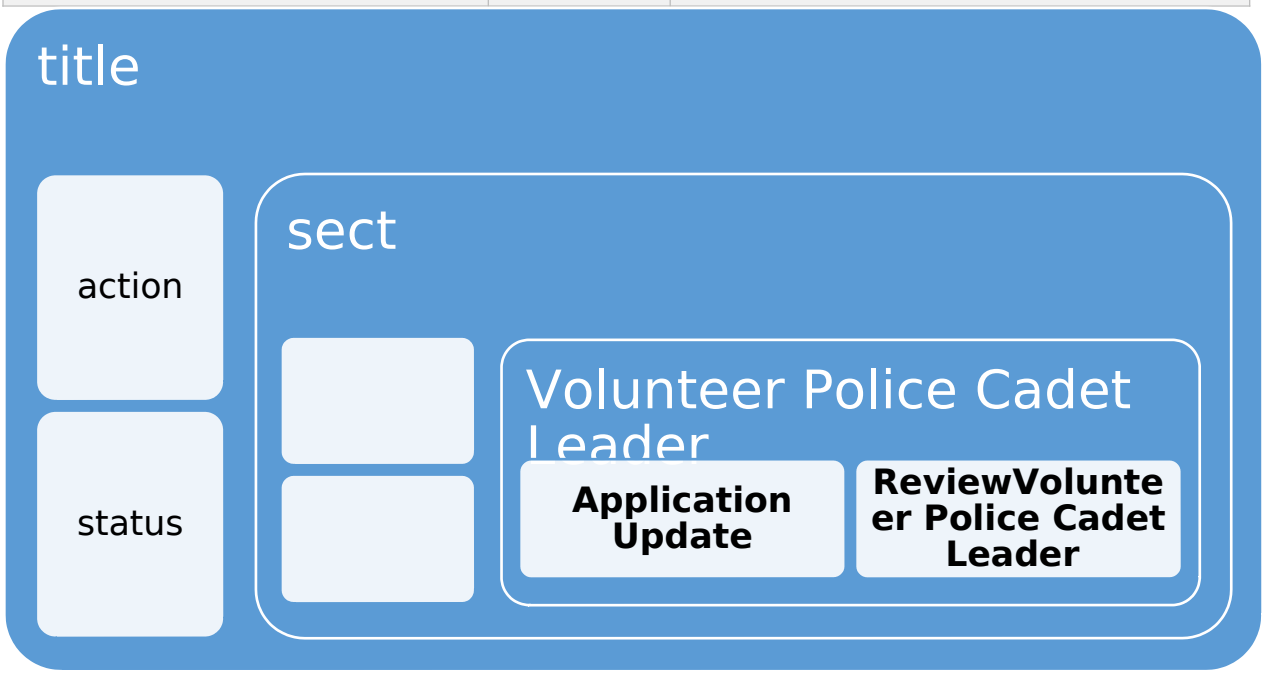
Police Staff - Counter Terrorism Policing HQ		Staff - Counter Terrorism Policing HQ
Detective Sergeant London Region Protected Persons Unit (LRPPU)	Application Update	ReviewDetective Sergeant London Region Protected Persons Unit (LRPPU)
Detective Sergeant Economic Crime - Fraud investigation teams	Application Update	ReviewDetective Sergeant Economic Crime - Fraud investigation teams
Detective Sergeant - Image Retrieval Unit	Application Update	ReviewDetective Sergeant - Image Retrieval Unit
Detective Sergeant - Frontline Policing Delivery Unit - Detective Pathways	Application Update	ReviewDetective Sergeant - Frontline Policing Delivery Unit - Detective Pathways
Detective Sergeant - Complex Investigation Team (CIT)	Application Update	ReviewDetective Sergeant - Complex Investigation Team (CIT)
Detective Inspector-Homicide Team	Application Update	ReviewDetective Inspector-Homicide Team
Detective Inspector – Trident Reactive : Specialist Crime (West Hub)	Application Update	ReviewDetective Inspector – Trident Reactive : Specialist Crime (West Hub)
Detective Inspector - Trident Reactive South	Application Update	ReviewDetective Inspector - Trident Reactive South
Detective Inspector - Specialist Investigation Unit - DPS	Application Withdrawn	ReviewDetective Inspector - Specialist Investigation Unit - DPS
Detective Inspector - Inquiry & Review Support Command (IRSC)	Application Update	ReviewDetective Inspector - Inquiry & Review Support Command (IRSC)
Detective Inspector - Homicide Teams at Barking	Application Update	ReviewDetective Inspector - Homicide Teams at Barking
Detective Constable - DASO - Professional Standards	Application Update	ReviewDetective Constable - DASO - Professional Standards
Designated Detention Officer	Application Update	ReviewDesignated Detention Officer
Deputy National Coordinator, Protect & Prepare - Supt - Counter Terrorism Policing HQ	Application Update	ReviewDeputy National Coordinator, Protect & Prepare - Supt - Counter Terrorism Policing HQ
DDaT Operations Manager	Application Update	ReviewDDaT Operations Manager
DC - Public Order Crime Team	Application Update	ReviewDC - Public Order Crime Team
Data Quality Management Lead	Application Update	ReviewData Quality Management Lead
Data Management Officer Indexer - Band E - NDMC - Counter Terrorism Policing HQ	Application Update	ReviewData Management Officer Indexer - Band E - NDMC - Counter Terrorism Policing HQ
Cyber Unit - DI Protect, Prepare and Prevent	Application Update	ReviewCyber Unit - DI Protect, Prepare and Prevent
Custody Healthcare Practitioner Open Day Event - Hammersmith Police Station - Thursday 27th June 2024 13:00PM	Registration Update	ReviewCustody Healthcare Practitioner Open Day Event - Hammersmith Police Station - Thursday 27th June 2024 13:00PM
Custody Healthcare Practitioner	Registratio	ReviewCustody Healthcare

Open Day Event - Charing Cross Police Station - Thursday 24th October 2024 13:00PM	n Update	Practitioner Open Day Event - Charing Cross Police Station - Thursday 24th October 2024 13:00PM
Custody Healthcare Practitioner (Registered Nurse / Registered Paramedic)	Application Update	ReviewCustody Healthcare Practitioner (Registered Nurse / Registered Paramedic)
CTSFO Tactical Advisor	Application Update	ReviewCTSFO Tactical Advisor
CSC - Offender Management - International Assistance Unit (IAU) Detective Constable	Application Update	ReviewCSC - Offender Management - International Assistance Unit (IAU) Detective Constable
CSC - Offender Management - Central Orders Team Police Constable	Application Update	ReviewCSC - Offender Management - Central Orders Team Police Constable
Crime Academy DC - Interview Team	Application Update	ReviewCrime Academy DC - Interview Team
Covert Admin (COVAD) Deputy Manager	Application Update	ReviewCovert Admin (COVAD) Deputy Manager
Counter Weapons Threat Team Officer - PC - Counter Terrorism Policing HQ	Application Update	ReviewCounter Weapons Threat Team Officer - PC - Counter Terrorism Policing HQ
Counter Terrorism Security Advisor (CTSA)	Application Update	ReviewCounter Terrorism Security Advisor (CTSA)
Counter Terrorism Security Advisor (CTSA)	Application Update	ReviewCounter Terrorism Security Advisor (CTSA)
Counter Terrorism Police Liaison Officer - DSU - IOPS - Counter Terrorism Policing SO15	Application Withdrawn	ReviewCounter Terrorism Police Liaison Officer - DSU - IOPS - Counter Terrorism Policing SO15
Correspondence Manager	Application Update	ReviewCorrespondence Manager
Coroner's Officer Manager	Application Update	ReviewCoroner's Officer Manager
Contract Lifecycle Support	Application Update	ReviewContract Lifecycle Support
CONNECT Support Team- User Support Specialist	Application Update	ReviewCONNECT Support Team- User Support Specialist
Compliance & Assurance Officer - Counter Terrorism Policing HQ	Application Update	ReviewCompliance & Assurance Officer - Counter Terrorism Policing HQ
Complex Investigation Team (CIT) Police Constable SOIT	Application Update	ReviewComplex Investigation Team (CIT) Police Constable SOIT
Complex Investigation Team (CIT) Disclosure Support Officer	Application Update	ReviewComplex Investigation Team (CIT) Disclosure Support Officer
Complex Investigation Team (CIT) Detective Inspector	Application Update	ReviewComplex Investigation Team (CIT) Detective Inspector
Complex Investigation Team (CIT) Detective Constable	Application Update	ReviewComplex Investigation Team (CIT) Detective Constable
Complaint Resolution Unit (CRU) - Complaint handler	Application Update	ReviewComplaint Resolution Unit (CRU) - Complaint handler

Complaint Handler	Application Update	ReviewComplaint Handler
Communications Manager – Marketing, Campaigns and Internal Communications	Application Update	ReviewCommunications Manager – Marketing, Campaigns and Internal Communications
Communications Lead – Chief Media Officer	Application Update	ReviewCommunications Lead – Chief Media Officer
Communication Planning Manager	Application Update	ReviewCommunication Planning Manager
Commercial Lead Solution Delivery	Application Update	ReviewCommercial Lead Solution Delivery
Commercial Consultant-Assurance and Risk	Application Update	ReviewCommercial Consultant-Assurance and Risk
Commercial Consultant	Application Update	ReviewCommercial Consultant
Commercial Apprentice	Application Update	ReviewCommercial Apprentice
CJOMS Shift Team Manager	Application Update	ReviewCJOMS Shift Team Manager
Character Enquiry Centre Team Leader	Application Update	ReviewCharacter Enquiry Centre Team Leader
Centralised Administration Team Member	Application Update	ReviewCentralised Administration Team Member
Centralised Admin - Typing Services	Application Update	ReviewCentralised Admin - Typing Services
CCTV Investigations Assessment/Review - Band D - NDES S3 - SO15	Application Update	ReviewCCTV Investigations Assessment/Review - Band D - NDES S3 - SO15
Casualty Bureau (CB) Co-ordinator	Application Update	ReviewCasualty Bureau (CB) Co-ordinator
Case Management Administrator	Application Update	ReviewCase Management Administrator
Capital Manager	Application Update	ReviewCapital Manager
Business Change Supervisor	Application Update	ReviewBusiness Change Supervisor
Business Change Specialist	Application Update	ReviewBusiness Change Specialist
Business Change Manager - Change - Counter Terrorism Policing HQ	Application Update	ReviewBusiness Change Manager - Change - Counter Terrorism Policing HQ
Business Change Lead - Change - Counter Terrorism Policing HQ	Application Update	ReviewBusiness Change Lead - Change - Counter Terrorism Policing HQ
Business Change Communications Specialist	Application Update	ReviewBusiness Change Communications Specialist
Business Assurance Junior Manager	Application Update	ReviewBusiness Assurance Junior Manager
Business and Policy Support Officer - Data & Analysis - Counter Terrorism Policing HQ	Application Update	ReviewBusiness and Policy Support Officer - Data & Analysis - Counter

		Terrorism Policing HQ
Business Analyst – Strategy, Planning and Performance (SPP) Counter Terrorism Policing HQ	Application Update	ReviewBusiness Analyst – Strategy, Planning and Performance (SPP) Counter Terrorism Policing HQ
Building Manager	Application Update	ReviewBuilding Manager
Biometric Intelligence Case Officer - Band D - NDES S6 - SO15	Application Update	ReviewBiometric Intelligence Case Officer - Band D - NDES S6 - SO15
Beckton Recruitment Event	Registration Update	ReviewBeckton Recruitment Event
BCU Learning and Development Lead	Application Update	ReviewBCU Learning and Development Lead
BCU Learning and Development Co-ordinator	Application Update	ReviewBCU Learning and Development Co-ordinator
Band E Specialist Crime CPS Liaison Team / Met Police Room Central Criminal Court	Application Update	ReviewBand E Specialist Crime CPS Liaison Team / Met Police Room Central Criminal Court
Audit and Risk Manager - Strategic Planning & Risk	Application Update	ReviewAudit and Risk Manager - Strategic Planning & Risk
Apprentice Vehicle Mechanical Electrical Trim (M.E.T.) Technician	Application Update	ReviewApprentice Vehicle Mechanical Electrical Trim (M.E.T.) Technician
Apprentice Motorcycle Technician	Application Update	Review Apprentice Motorcycle Technician
Anti-Corruption and Abuse (ACAC) Intelligence Bureau.	Application Update	ReviewAnti-Corruption and Abuse (ACAC) Intelligence Bureau.
Administrative Officer – MO2 - HQ Operations	Application Update	ReviewAdministrative Officer – MO2 - HQ Operations
202402 - MPS Return Scheme Retired Officers	Application Update	Review202402 - MPS Return Scheme Retired Officers
202402 - MPS Return Scheme Approaching Retirement	Application Update	Review202402 - MPS Return Scheme Approaching Retirement
2024-07 Police Constable Degree Apprenticeship (PCDA)	Application Update	Review2024-07 Police Constable Degree Apprenticeship (PCDA)
2024-07 Police Constable Degree Apprenticeship (PCDA)	Application Update	Review2024-07 Police Constable Degree Apprenticeship (PCDA)
202307 Transferring Officers - Specialist Team	Application Update	Review202307 Transferring Officers - Specialist Team
202307 Transferring Officers - Neighbourhood Team	Application Update	Review202307 Transferring Officers - Neighbourhood Team
202305 - Police Community Support Officer (PCSO)	Application Update	Review202305 - Police Community Support Officer (PCSO)
202305 - Police Community Support Officer (PCSO)	Application Update	Review202305 - Police Community Support Officer (PCSO)
202207 - Detective Constable Pathway	Application Update	Review202207 - Detective Constable Pathway
202203 Rejoiner Officers	Application Update	Review202203 Rejoiner Officers
07-2024 Special Constable (Volunteer Police Constable)	Application Update	Review07-2024 Special Constable (Volunteer Police Constable)

07-2024 Special Constable (Volunteer Police Constable)	Application Update	Review07-2024 Special Constable (Volunteer Police Constable)
042024 - DCEP (Detective Constable Entry Programme)	Application Update	Review042024 - DCEP (Detective Constable Entry Programme)



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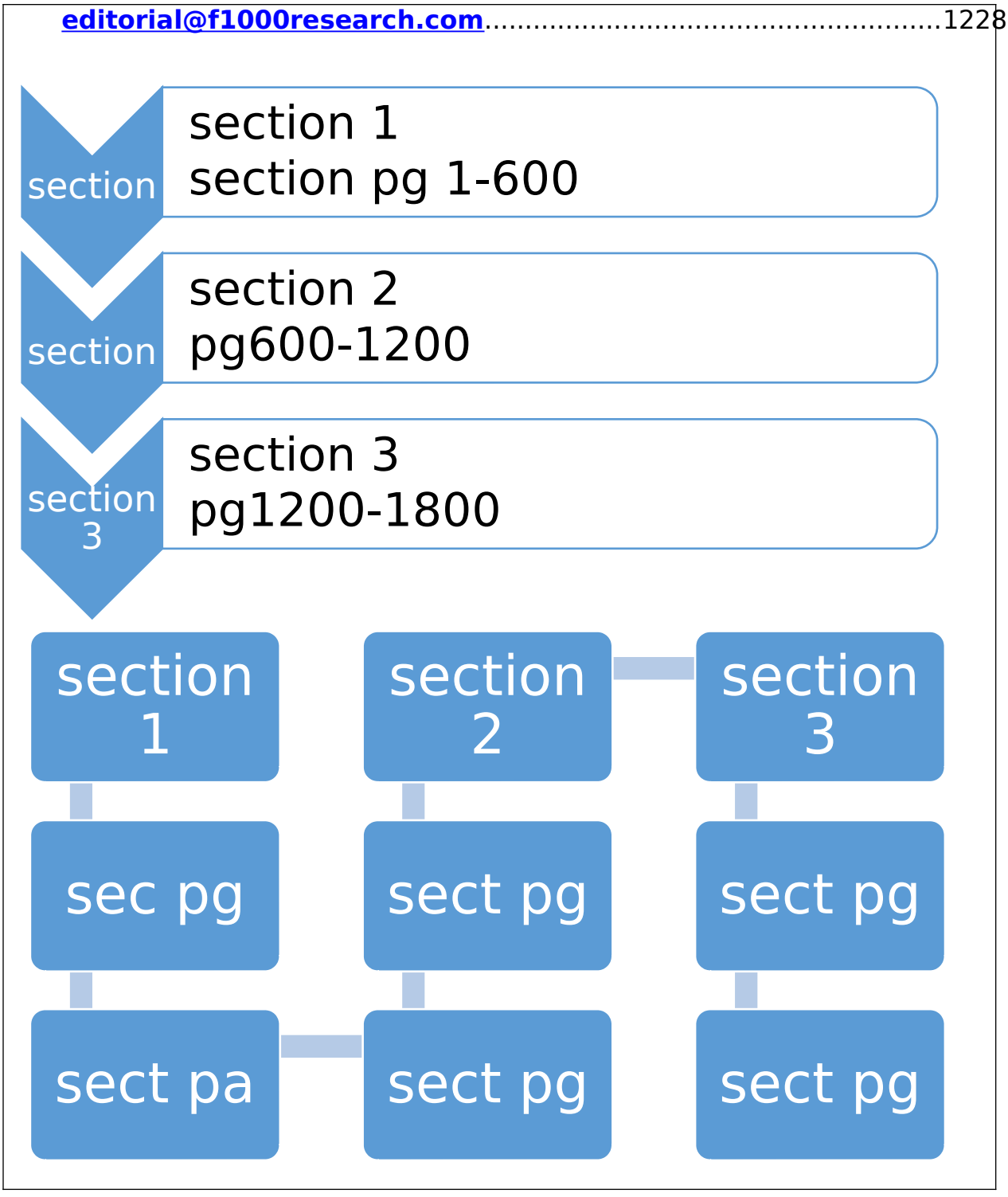
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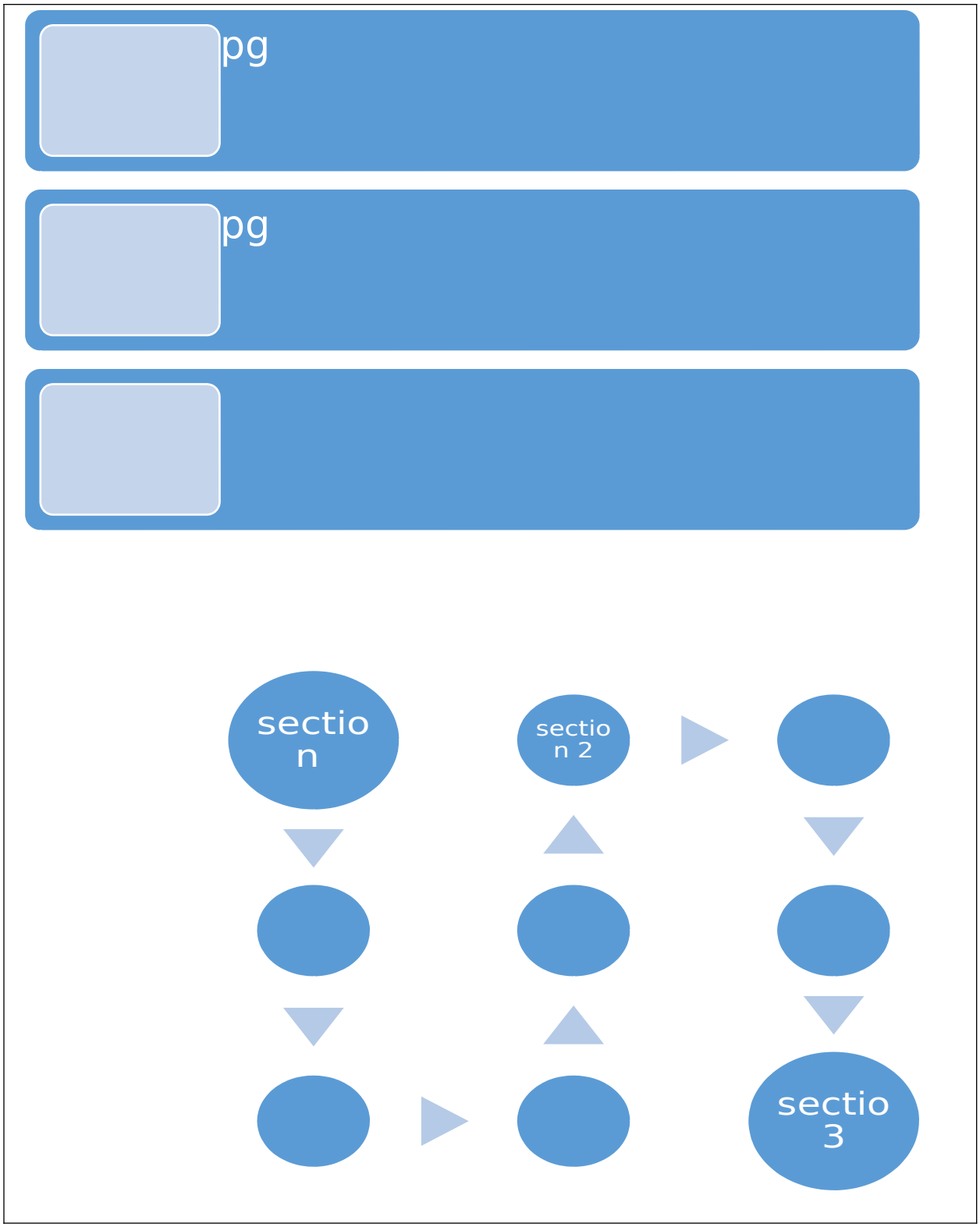
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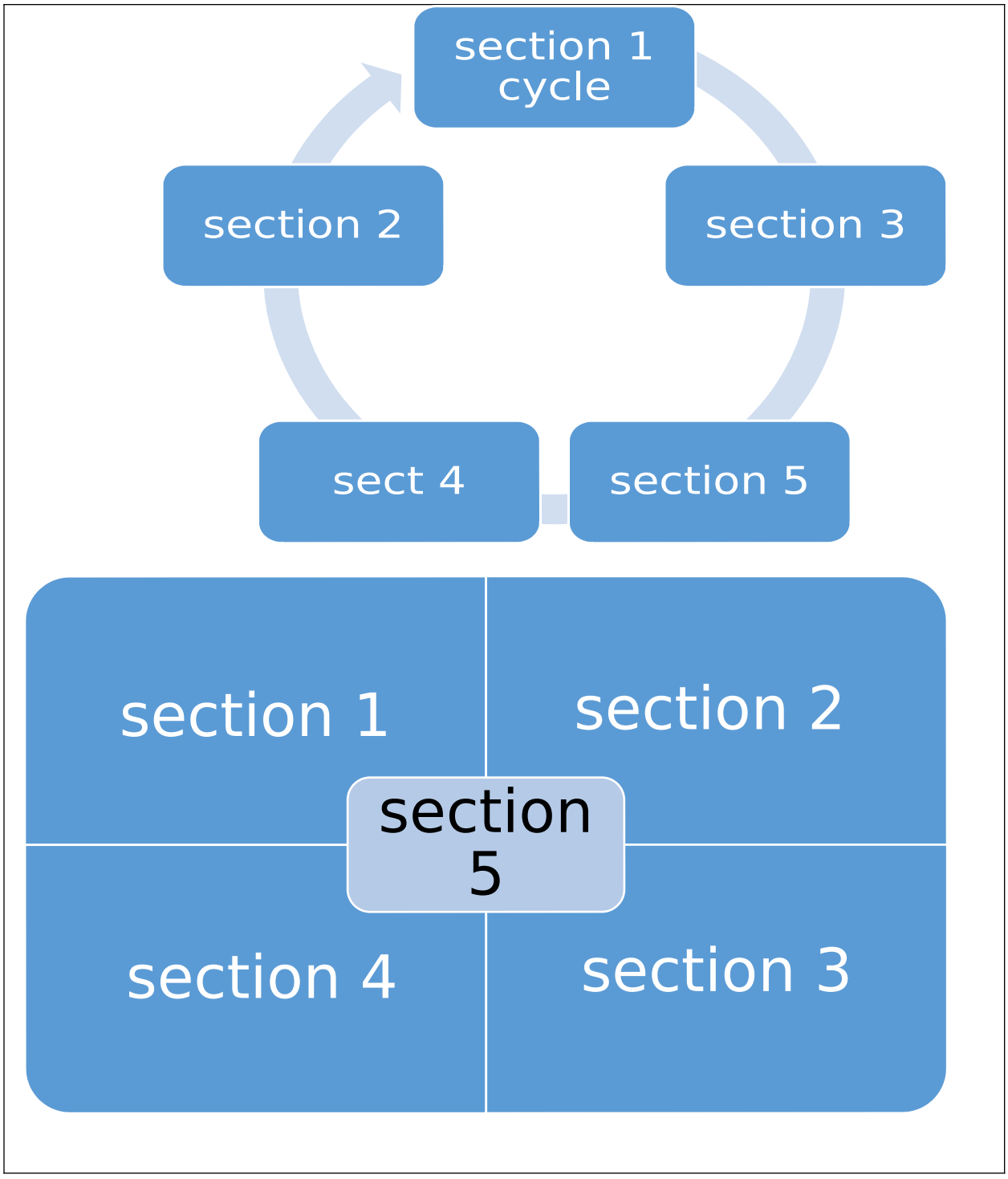
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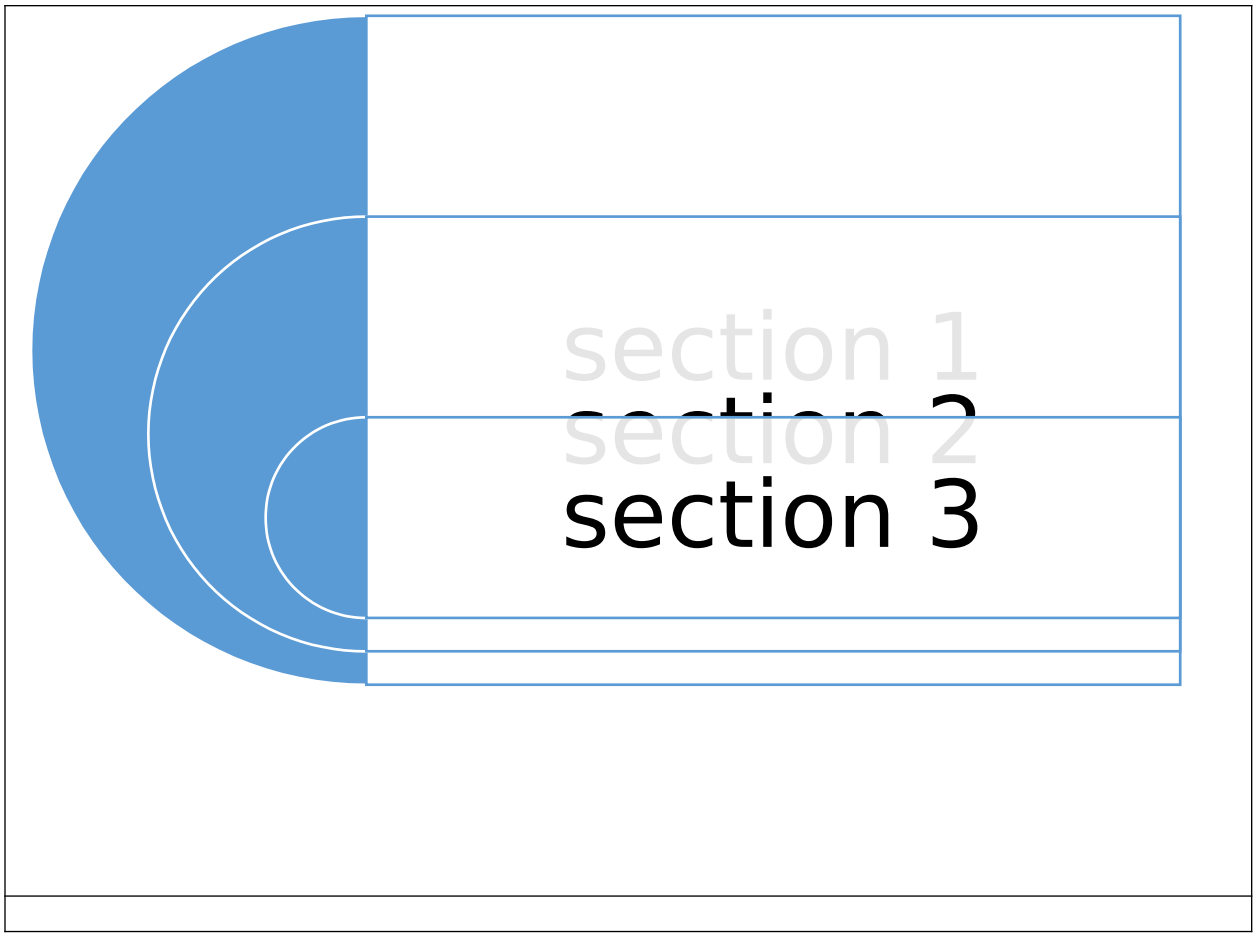
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VERSION 5.00
Begin {C62A69F0-16DC-11CE-9E98-00AA00574A4F} UserForm12
   Caption         =   "UserForm12"
   ClientHeight    =   7164
   ClientLeft      =   108
   ClientTop       =   456
   ClientWidth     =   16356
   OleObjectBlob   =   "UserForm12 tshingombe.frx":0000
   StartUpPosition =   1  'CenterOwner
End
Attribute VB_Name = "UserForm12"
Attribute VB_GlobalNameSpace = False
Attribute VB_Creatable = False
Attribute VB_PredeclaredId = True
Attribute VB_Exposed = False
Private Sub Frame3_Click()

End Sub

Private Sub Label1_Click()

End Sub

Private Sub Label10_Click()

End Sub

Private Sub Label12_Click()

End Sub

Private Sub Label13_Click()
```

```
End Sub

Private Sub Label15_Click()

End Sub

Private Sub Label6_Click()

End Sub

Private Sub Label7_Click()

End Sub

Private Sub Label9_Click()

End Sub

Private Sub ListBox1_Click()

End Sub

Private Sub ListBox3_Click()

End Sub

Private Sub ListBox4_Click()

End Sub

Private Sub MultiPage1_Change()

End Sub

Private Sub TextBox1_Change()

End Sub

Private Sub UserForm_Click()

End Sub
```

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```
VERSION 5.00
Begin {C62A69F0-16DC-11CE-9E98-00AA00574A4F} UserForm1
   Caption         =   "UserForm1"
   ClientHeight    =   6840
   ClientLeft      =   108
   ClientTop       =   456
   ClientWidth     =   19248
   OleObjectBlob   =   "UserForm1 tshingombe equation.frx":0000
   StartUpPosition =   1  'CenterOwner
   WhatsThisButton =   -1  'True
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   WhatsThisHelp   =   -1  'True
End
Attribute VB_Name = "UserForm1"
Attribute VB_GlobalNameSpace = False
Attribute VB_Creatable = False
Attribute VB_PredeclaredId = True
Attribute VB_Exposed = False

Private Sub CommandButton1_Click()

End Sub

Private Sub CommandButton2_Click()

End Sub

Private Sub CommandButton3_Click()

End Sub

Private Sub Frame1_Click()

End Sub

Private Sub Label1_Click()

End Sub

Private Sub Label3_Click()

End Sub

Private Sub Label5_Click()

End Sub

Private Sub TextBox1_Change()

End Sub

Private Sub TextBox2_Change()

End Sub

Private Sub TextBox3_Change()

End Sub

Private Sub TextBox4_AfterUpdate()

End Sub

Private Sub TextBox4_BeforeDragOver(ByVal Cancel As MSForms.ReturnBoolean,
ByVal Data As MSForms.DataObject, ByVal X As Single, ByVal Y As Single, ByVal
```

```
DragState As MSForms.fmDragState, ByVal Effect As MSForms.ReturnEffect, ByVal
Shift As Integer)

End Sub

Private Sub TextBox4_BeforeDropOrPaste(ByVal Cancel As MSForms.ReturnBoolean,
ByVal Action As MSForms.fmAction, ByVal Data As MSForms.DataObject, ByVal X
As Single, ByVal Y As Single, ByVal Effect As MSForms.ReturnEffect, ByVal
Shift As Integer)

End Sub

Private Sub TextBox4_BeforeUpdate(ByVal Cancel As MSForms.ReturnBoolean)

End Sub

Private Sub TextBox4_Change()

End Sub

Private Sub TextBox4_DblClick(ByVal Cancel As MSForms.ReturnBoolean)

End Sub

Private Sub TextBox4_DropButtonClick()

End Sub

Private Sub TextBox4_Enter()

End Sub

Private Sub TextBox4_Exit(ByVal Cancel As MSForms.ReturnBoolean)

End Sub

Private Sub TextBox4_KeyDown(ByVal KeyCode As MSForms.ReturnInteger, ByVal
Shift As Integer)

End Sub

Private Sub TextBox4_KeyPress(ByVal KeyAscii As MSForms.ReturnInteger)

End Sub

Private Sub TextBox4_KeyUp(ByVal KeyCode As MSForms.ReturnInteger, ByVal
Shift As Integer)

End Sub

Private Sub TextBox4_MouseDown(ByVal Button As Integer, ByVal Shift As
Integer, ByVal X As Single, ByVal Y As Single)

End Sub
```

```
Private Sub TextBox4_MouseMove(ByVal Button As Integer, ByVal Shift As
Integer, ByVal X As Single, ByVal Y As Single)

End Sub

Private Sub TextBox4_MouseUp(ByVal Button As Integer, ByVal Shift As Integer,
ByVal X As Single, ByVal Y As Single)

End Sub

Private Sub UserForm_Click()

End Sub
```

```
VERSION 5.00
Begin {C62A69F0-16DC-11CE-9E98-00AA00574A4F} frm1
   Caption         =   "UserForm1"
   ClientHeight    =   8664
   ClientLeft      =   108
   ClientTop       =   456
   ClientWidth     =   19884
   OleObjectBlob   =   "frm1tshingombe.frx":0000
   StartUpPosition =   1  'CenterOwner
   WhatsThisButton =   -1  'True
   WhatsThisHelp   =   -1  'True
End
Attribute VB_Name = "frm1"
Attribute VB_GlobalNameSpace = False
Attribute VB_Creatable = False
Attribute VB_PredeclaredId = True
Attribute VB_Exposed = False
Private Sub ComboBox1_Change()

End Sub

Private Sub ComboBox2_Change()

End Sub

Private Sub ComboBox3_Change()

End Sub

Private Sub ComboBox4_Change()

End Sub

Private Sub ComboBox5_Change()

End Sub

Private Sub CommandButton1_Click()

End Sub

Private Sub CommandButton2_Click()
```

```
End Sub

Private Sub CommandButton3_Click()

End Sub

Private Sub Frame1_Click()

End Sub

Private Sub Label1_Click()

End Sub

Private Sub Label2_Click()

End Sub

Private Sub Label3_Click()

End Sub

Private Sub Label5_Click()

End Sub

Private Sub Label6_Click()

End Sub

Private Sub TextBox1_BeforeDragOver(ByVal Cancel As MSForms.ReturnBoolean,
ByVal Data As MSForms.DataObject, ByVal X As Single, ByVal Y As Single, ByVal
DragState As MSForms.fmDragState, ByVal Effect As MSForms.ReturnEffect, ByVal
Shift As Integer)

End Sub

Private Sub TextBox1_BeforeDropOrPaste(ByVal Cancel As MSForms.ReturnBoolean,
ByVal Action As MSForms.fmAction, ByVal Data As MSForms.DataObject, ByVal X
As Single, ByVal Y As Single, ByVal Effect As MSForms.ReturnEffect, ByVal
Shift As Integer)

End Sub

Private Sub TextBox1_Change()

End Sub

Private Sub TextBox1_DblClick(ByVal Cancel As MSForms.ReturnBoolean)

End Sub

Private Sub TextBox1_DropButtonClick()
```

```
End Sub

Private Sub TextBox1_Enter()

End Sub

Private Sub TextBox1_Error(ByVal Number As Integer, ByVal Description As
MSForms.ReturnString, ByVal SCode As Long, ByVal Source As String, ByVal
HelpFile As String, ByVal HelpContext As Long, ByVal CancelDisplay As
MSForms.ReturnBoolean)

End Sub

Private Sub TextBox1_KeyDown(ByVal KeyCode As MSForms.ReturnInteger, ByVal
Shift As Integer)

End Sub

Private Sub TextBox1_KeyPress(ByVal KeyAscii As MSForms.ReturnInteger)

End Sub

Private Sub TextBox1_KeyUp(ByVal KeyCode As MSForms.ReturnInteger, ByVal
Shift As Integer)

End Sub

Private Sub TextBox1_MouseDown(ByVal Button As Integer, ByVal Shift As
Integer, ByVal X As Single, ByVal Y As Single)

End Sub

Private Sub TextBox1_MouseMove(ByVal Button As Integer, ByVal Shift As
Integer, ByVal X As Single, ByVal Y As Single)

End Sub

Private Sub TextBox1_MouseUp(ByVal Button As Integer, ByVal Shift As Integer,
ByVal X As Single, ByVal Y As Single)

End Sub
```

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```
VERSION 5.00
Begin {C62A69F0-16DC-11CE-9E98-00AA00574A4F} frm1
   Caption         =   "UserForm1"
   ClientHeight    =   8664
   ClientLeft      =   108
   ClientTop       =   456
   ClientWidth     =   19884
   OleObjectBlob   =   "frm1tshingombe.frx":0000
   StartUpPosition =   1  'CenterOwner
   WhatsThisButton =   -1  'True
   WhatsThisHelp   =   -1  'True
End
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Attribute VB_Name = "frm1"
Attribute VB_GlobalNameSpace = False
Attribute VB_Creatable = False
Attribute VB_PredeclaredId = True
Attribute VB_Exposed = False
Private Sub ComboBox1_Change()

End Sub

Private Sub ComboBox2_Change()

End Sub

Private Sub ComboBox3_Change()

End Sub

Private Sub ComboBox4_Change()

End Sub

Private Sub ComboBox5_Change()

End Sub

Private Sub CommandButton1_Click()

End Sub

Private Sub CommandButton2_Click()

End Sub

Private Sub CommandButton3_Click()

End Sub

Private Sub Frame1_Click()

End Sub

Private Sub Label1_Click()

End Sub

Private Sub Label2_Click()

End Sub

Private Sub Label3_Click()

End Sub

Private Sub Label5_Click()
```

```
End Sub

Private Sub Label6_Click()

End Sub

Private Sub TextBox1_BeforeDragOver(ByVal Cancel As MSForms.ReturnBoolean,
ByVal Data As MSForms.DataObject, ByVal X As Single, ByVal Y As Single, ByVal
DragState As MSForms.fmDragState, ByVal Effect As MSForms.ReturnEffect, ByVal
Shift As Integer)

End Sub

Private Sub TextBox1_BeforeDropOrPaste(ByVal Cancel As MSForms.ReturnBoolean,
ByVal Action As MSForms.fmAction, ByVal Data As MSForms.DataObject, ByVal X
As Single, ByVal Y As Single, ByVal Effect As MSForms.ReturnEffect, ByVal
Shift As Integer)

End Sub

Private Sub TextBox1_Change()

End Sub

Private Sub TextBox1_DblClick(ByVal Cancel As MSForms.ReturnBoolean)

End Sub

Private Sub TextBox1_DropButtonClick()

End Sub

Private Sub TextBox1_Enter()

End Sub

Private Sub TextBox1_Error(ByVal Number As Integer, ByVal Description As
MSForms.ReturnString, ByVal SCode As Long, ByVal Source As String, ByVal
HelpFile As String, ByVal HelpContext As Long, ByVal CancelDisplay As
MSForms.ReturnBoolean)

End Sub

Private Sub TextBox1_KeyDown(ByVal KeyCode As MSForms.ReturnInteger, ByVal
Shift As Integer)

End Sub

Private Sub TextBox1_KeyPress(ByVal KeyAscii As MSForms.ReturnInteger)

End Sub

Private Sub TextBox1_KeyUp(ByVal KeyCode As MSForms.ReturnInteger, ByVal
Shift As Integer)
```

```
End Sub

Private Sub TextBox1_MouseDown(ByVal Button As Integer, ByVal Shift As
Integer, ByVal X As Single, ByVal Y As Single)

End Sub

Private Sub TextBox1_MouseMove(ByVal Button As Integer, ByVal Shift As
Integer, ByVal X As Single, ByVal Y As Single)

End Sub

Private Sub TextBox1_MouseUp(ByVal Button As Integer, ByVal Shift As Integer,
ByVal X As Single, ByVal Y As Single)

End Sub
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   ClientWidth     =   19812
   OleObjectBlob   =   "UserForm3tshingombe.frx":0000
   StartUpPosition =   3  'Windows Default
   WhatsThisButton =   -1  'True
   WhatsThisHelp   =   -1  'True
End
Attribute VB_Name = "UserForm3"
Attribute VB_GlobalNameSpace = False
Attribute VB_Creatable = False
Attribute VB_PredeclaredId = True
Attribute VB_Exposed = False

Private Sub ComboBox1_Change()

End Sub

Private Sub CommandButton1_Click()

End Sub

Private Sub CommandButton2_Click()

End Sub

Private Sub CommandButton3_Click()

End Sub

Private Sub Label1_Click()

End Sub
```

```
Private Sub ListBox1_Click()

End Sub

Private Sub SpinButton1_AfterUpdate()

End Sub

Private Sub SpinButton1_BeforeDragOver(ByVal Cancel As MSForms.ReturnBoolean,
ByVal Data As MSForms.DataObject, ByVal X As Single, ByVal Y As Single, ByVal
DragState As MSForms.fmDragState, ByVal Effect As MSForms.ReturnEffect, ByVal
Shift As Integer)

End Sub

Private Sub SpinButton1_BeforeUpdate(ByVal Cancel As MSForms.ReturnBoolean)

End Sub

Private Sub SpinButton1_Change()

End Sub

Private Sub SpinButton1_Enter()

End Sub

Private Sub SpinButton1_Exit(ByVal Cancel As MSForms.ReturnBoolean)

End Sub

Private Sub SpinButton1_KeyPress(ByVal KeyAscii As MSForms.ReturnInteger)

End Sub

Private Sub SpinButton1_KeyUp(ByVal KeyCode As MSForms.ReturnInteger, ByVal
Shift As Integer)

End Sub

Private Sub SpinButton1_SpinDown()

End Sub
```

---

file:///C:/Users/Library%20SIX/Desktop/UserForm3tshingombe.frm

```
VERSION 5.00
Begin {C62A69F0-16DC-11CE-9E98-00AA00574A4F} UserForm3
   Caption         =   "UserForm3"
   ClientHeight    =   7476
   ClientLeft      =   108
   ClientTop       =   456
   ClientWidth     =   19812
   OleObjectBlob   =   "UserForm3tshingombe.frx":0000
   StartUpPosition =   3  'Windows Default
```

```
   WhatsThisButton =   -1  'True
   WhatsThisHelp   =   -1  'True
End
Attribute VB_Name = "UserForm3"
Attribute VB_GlobalNameSpace = False
Attribute VB_Creatable = False
Attribute VB_PredeclaredId = True
Attribute VB_Exposed = False

Private Sub ComboBox1_Change()

End Sub

Private Sub CommandButton1_Click()

End Sub

Private Sub CommandButton2_Click()

End Sub

Private Sub CommandButton3_Click()

End Sub

Private Sub Label1_Click()

End Sub

Private Sub ListBox1_Click()

End Sub

Private Sub SpinButton1_AfterUpdate()

End Sub

Private Sub SpinButton1_BeforeDragOver(ByVal Cancel As MSForms.ReturnBoolean,
ByVal Data As MSForms.DataObject, ByVal X As Single, ByVal Y As Single, ByVal
DragState As MSForms.fmDragState, ByVal Effect As MSForms.ReturnEffect, ByVal
Shift As Integer)

End Sub

Private Sub SpinButton1_BeforeUpdate(ByVal Cancel As MSForms.ReturnBoolean)

End Sub

Private Sub SpinButton1_Change()

End Sub

Private Sub SpinButton1_Enter()

End Sub
```

```
Private Sub SpinButton1_Exit(ByVal Cancel As MSForms.ReturnBoolean)

End Sub

Private Sub SpinButton1_KeyPress(ByVal KeyAscii As MSForms.ReturnInteger)

End Sub

Private Sub SpinButton1_KeyUp(ByVal KeyCode As MSForms.ReturnInteger, ByVal
Shift As Integer)

End Sub

Private Sub SpinButton1_SpinDown()

End Sub
```

---

file:///C:/Users/Library%20SIX/Desktop/UserForm8%20tshingmbe.frm

```
VERSION 5.00
Begin {C62A69F0-16DC-11CE-9E98-00AA00574A4F} UserForm8
   Caption         =   "UserForm8"
   ClientHeight    =   7908
   ClientLeft      =   108
   ClientTop       =   456
   ClientWidth     =   19488
   OleObjectBlob   =   "UserForm8 tshingmbe.frx":0000
   StartUpPosition =   1  'CenterOwner
End
Attribute VB_Name = "UserForm8"
Attribute VB_GlobalNameSpace = False
Attribute VB_Creatable = False
Attribute VB_PredeclaredId = True
Attribute VB_Exposed = False
```

---

file:///C:/Users/Library%20SIX/Desktop/UserForm9%20tshingombe.frm

```
VERSION 5.00
Begin {C62A69F0-16DC-11CE-9E98-00AA00574A4F} UserForm5
   Caption         =   "UserForm5"
   ClientHeight    =   10020
   ClientLeft      =   108
   ClientTop       =   456
   ClientWidth     =   19728
   OleObjectBlob   =   "UserForm5tshingombe.frx":0000
   StartUpPosition =   1  'CenterOwner
   WhatsThisButton =   -1  'True
   WhatsThisHelp   =   -1  'True
End
Attribute VB_Name = "UserForm5"
Attribute VB_GlobalNameSpace = False
Attribute VB_Creatable = False
Attribute VB_PredeclaredId = True
Attribute VB_Exposed = False
Private Sub ComboBox1_Change()
```

```
End Sub

Private Sub UserForm_Activate()

End Sub

Private Sub UserForm_AddControl(ByVal Control As MSForms.Control)

End Sub

Private Sub UserForm_BeforeDropOrPaste(ByVal Cancel As MSForms.ReturnBoolean,
ByVal Control As MSForms.Control, ByVal Action As MSForms.fmAction, ByVal
Data As MSForms.DataObject, ByVal X As Single, ByVal Y As Single, ByVal
Effect As MSForms.ReturnEffect, ByVal Shift As Integer)

End Sub

Private Sub UserForm_Click()

End Sub

Private Sub UserForm_Error(ByVal Number As Integer, ByVal Description As
MSForms.ReturnString, ByVal SCode As Long, ByVal Source As String, ByVal
HelpFile As String, ByVal HelpContext As Long, ByVal CancelDisplay As
MSForms.ReturnBoolean)

End Sub

Private Sub UserForm_Initialize()

End Sub

Private Sub UserForm_KeyDown(ByVal KeyCode As MSForms.ReturnInteger, ByVal
Shift As Integer)

End Sub

Private Sub UserForm_KeyPress(ByVal KeyAscii As MSForms.ReturnInteger)

End Sub

Private Sub UserForm_MouseDown(ByVal Button As Integer, ByVal Shift As
Integer, ByVal X As Single, ByVal Y As Single)

End Sub

Private Sub UserForm_MouseUp(ByVal Button As Integer, ByVal Shift As Integer,
ByVal X As Single, ByVal Y As Single)

End Sub

Private Sub UserForm_RemoveControl(ByVal Control As MSForms.Control)

End Sub
```

```
Private Sub UserForm_Resize()

End Sub

Private Sub UserForm_Terminate()

End Sub
```

---

frm1 - 1

```
Private Sub ComboBox1_Change()
End Sub
Private Sub ComboBox2_Change()
End Sub
Private Sub ComboBox3_Change()
End Sub
Private Sub ComboBox4_Change()
End Sub
Private Sub ComboBox5_Change()
End Sub
Private Sub CommandButton1_Click()
End Sub
Private Sub CommandButton2_Click()
End Sub
Private Sub CommandButton3_Click()
End Sub
Private Sub Frame1_Click()
End Sub
Private Sub Label1_Click()
End Sub
Private Sub Label2_Click()
End Sub
Private Sub Label3_Click()
End Sub
Private Sub Label5_Click()
End Sub
Private Sub Label6_Click()
End Sub
Private Sub TextBox1_BeforeDragOver(ByVal Cancel As MSForms.ReturnBoolean, ByVal Data
As MSForms.DataO
bject, ByVal X As Single, ByVal Y As Single, ByVal DragState As MSForms.fmDragState, ByVal
Effect As M
SForms.ReturnEffect, ByVal Shift As Integer)
End Sub
Private Sub TextBox1_BeforeDropOrPaste(ByVal Cancel As MSForms.ReturnBoolean, ByVal
Action As MSForms.
fmAction, ByVal Data As MSForms.DataObject, ByVal X As Single, ByVal Y As Single, ByVal
Effect As MSFo
rms.ReturnEffect, ByVal Shift As Integer)
End Sub
Private Sub TextBox1_Change()
End Sub
Private Sub TextBox1_DblClick(ByVal Cancel As MSForms.ReturnBoolean)frm1 - 2
End Sub
Private Sub TextBox1_DropButtonClick()
End Sub
Private Sub TextBox1_Enter()
```

```
End Sub
Private Sub TextBox1_Error(ByVal Number As Integer, ByVal Description As
MSForms.ReturnString, ByVal S
Code As Long, ByVal Source As String, ByVal HelpFile As String, ByVal HelpContext As Long,
ByVal Cance
lDisplay As MSForms.ReturnBoolean)
End Sub
Private Sub TextBox1_KeyDown(ByVal KeyCode As MSForms.ReturnInteger, ByVal Shift As
Integer)
End Sub
Private Sub TextBox1_KeyPress(ByVal KeyAscii As MSForms.ReturnInteger)
End Sub
Private Sub TextBox1_KeyUp(ByVal KeyCode As MSForms.ReturnInteger, ByVal Shift As
Integer)
End Sub
Private Sub TextBox1_MouseDown(ByVal Button As Integer, ByVal Shift As Integer, ByVal X
As Single, ByV
al Y As Single)
End Sub
Private Sub TextBox1_MouseMove(ByVal Button As Integer, ByVal Shift As Integer, ByVal X
As Single, ByV
al Y As Single)
End Sub
Private Sub TextBox1_MouseUp(ByVal Button As Integer, ByVal Shift As Integer, ByVal X As
Single, ByVal
Y As Single)
End SubUserForm1 - 1
Private Sub CommandButton1_Click()
End Sub
Private Sub CommandButton2_Click()
End Sub
Private Sub CommandButton3_Click()
End Sub
Private Sub Frame1_Click()
End Sub
Private Sub Label1_Click()
End Sub
Private Sub Label3_Click()
End Sub
Private Sub Label5_Click()
End Sub
Private Sub TextBox1_Change()
End Sub
Private Sub TextBox2_Change()
End Sub
Private Sub TextBox3_Change()
End Sub
Private Sub TextBox4_AfterUpdate()
End Sub
Private Sub TextBox4_BeforeDragOver(ByVal Cancel As MSForms.ReturnBoolean, ByVal Data
As MSForms.DataO
bject, ByVal X As Single, ByVal Y As Single, ByVal DragState As MSForms.fmDragState, ByVal
Effect As M
SForms.ReturnEffect, ByVal Shift As Integer)
End Sub
```

```
Private Sub TextBox4_BeforeDropOrPaste(ByVal Cancel As MSForms.ReturnBoolean, ByVal
Action As MSForms.
fmAction, ByVal Data As MSForms.DataObject, ByVal X As Single, ByVal Y As Single, ByVal
Effect As MSFo
rms.ReturnEffect, ByVal Shift As Integer)
End Sub
Private Sub TextBox4_BeforeUpdate(ByVal Cancel As MSForms.ReturnBoolean)
End Sub
Private Sub TextBox4_Change()
End Sub
Private Sub TextBox4_DblClick(ByVal Cancel As MSForms.ReturnBoolean)
End Sub
Private Sub TextBox4_DropButtonClick()
End SubUserForm1 - 2
Private Sub TextBox4_Enter()
End Sub
Private Sub TextBox4_Exit(ByVal Cancel As MSForms.ReturnBoolean)
End Sub
Private Sub TextBox4_KeyDown(ByVal KeyCode As MSForms.ReturnInteger, ByVal Shift As
Integer)
End Sub
Private Sub TextBox4_KeyPress(ByVal KeyAscii As MSForms.ReturnInteger)
End Sub
Private Sub TextBox4_KeyUp(ByVal KeyCode As MSForms.ReturnInteger, ByVal Shift As
Integer)
End Sub
Private Sub TextBox4_MouseDown(ByVal Button As Integer, ByVal Shift As Integer, ByVal X
As Single, ByV
al Y As Single)
End Sub
Private Sub TextBox4_MouseMove(ByVal Button As Integer, ByVal Shift As Integer, ByVal X
As Single, ByV
al Y As Single)
End Sub
Private Sub TextBox4_MouseUp(ByVal Button As Integer, ByVal Shift As Integer, ByVal X As
Single, ByVal
Y As Single)
End Sub
Private Sub UserForm_Click()
End SubUserForm3 - 1
Private Sub ComboBox1_Change()
End Sub
Private Sub CommandButton1_Click()
End Sub
Private Sub CommandButton2_Click()
End Sub
Private Sub CommandButton3_Click()
End Sub
Private Sub Label1_Click()
End Sub
Private Sub ListBox1_Click()
End Sub
Private Sub SpinButton1_AfterUpdate()
End Sub
```

```
Private Sub SpinButton1_BeforeDragOver(ByVal Cancel As MSForms.ReturnBoolean, ByVal
Data As MSForms.Da
taObject, ByVal X As Single, ByVal Y As Single, ByVal DragState As MSForms.fmDragState,
ByVal Effect A
s MSForms.ReturnEffect, ByVal Shift As Integer)
End Sub
Private Sub SpinButton1_BeforeUpdate(ByVal Cancel As MSForms.ReturnBoolean)
End Sub
Private Sub SpinButton1_Change()
End Sub
Private Sub SpinButton1_Enter()
End Sub
Private Sub SpinButton1_Exit(ByVal Cancel As MSForms.ReturnBoolean)
End Sub
Private Sub SpinButton1_KeyPress(ByVal KeyAscii As MSForms.ReturnInteger)
End Sub
Private Sub SpinButton1_KeyUp(ByVal KeyCode As MSForms.ReturnInteger, ByVal Shift As
Integer)
End Sub
Private Sub SpinButton1_SpinDown()
End SubUserForm5 - 1
Private Sub ComboBox1_Change()
End Sub
Private Sub UserForm_Activate()
End Sub
Private Sub UserForm_AddControl(ByVal Control As MSForms.Control)
End Sub
Private Sub UserForm_BeforeDropOrPaste(ByVal Cancel As MSForms.ReturnBoolean, ByVal
Control As MSForms
.Control, ByVal Action As MSForms.fmAction, ByVal Data As MSForms.DataObject, ByVal X As
Single, ByVal
Y As Single, ByVal Effect As MSForms.ReturnEffect, ByVal Shift As Integer)
End Sub
Private Sub UserForm_Click()
End Sub
Private Sub UserForm_Error(ByVal Number As Integer, ByVal Description As
MSForms.ReturnString, ByVal S
Code As Long, ByVal Source As String, ByVal HelpFile As String, ByVal HelpContext As Long,
ByVal Cance
lDisplay As MSForms.ReturnBoolean)
End Sub
Private Sub UserForm_Initialize()
End Sub
Private Sub UserForm_KeyDown(ByVal KeyCode As MSForms.ReturnInteger, ByVal Shift As
Integer)
End Sub
Private Sub UserForm_KeyPress(ByVal KeyAscii As MSForms.ReturnInteger)
End Sub
Private Sub UserForm_MouseDown(ByVal Button As Integer, ByVal Shift As Integer, ByVal X
As Single, ByV
al Y As Single)
End Sub
Private Sub UserForm_MouseUp(ByVal Button As Integer, ByVal Shift As Integer, ByVal X As
Single, ByVal
Y As Single)
```

```
End Sub
Private Sub UserForm_RemoveControl(ByVal Control As MSForms.Control)
End Sub
Private Sub UserForm_Resize()
End Sub
Private Sub UserForm_Terminate()
End SubUserForm7 - 1
Private Sub ComboBox1_Change()
End Sub
Private Sub ComboBox2_Change()
End Sub
Private Sub CommandButton1_Click()
End Sub
Private Sub CommandButton2_Click()
End Sub
Private Sub CommandButton3_Click()
End Sub
Private Sub CommandButton5_Click()
End Sub
Private Sub CommandButton6_Click()
End Sub
Private Sub CommandButton8_Click()
End Sub
Private Sub CommandButton9_Click()
End Sub
Private Sub Label1_Click()
End Sub
Private Sub Label2_Click()
End Sub
Private Sub Label3_Click()
End Sub
Private Sub Label5_Click()
End Sub
Private Sub ListBox1_Click()
End Sub
Private Sub ScrollBar1_Change()
End Sub
Private Sub UserForm_Activate()
End Sub
Private Sub UserForm_Click()
End SubNewMacros - 1
Sub fgm()
'
' fgm Macro
'
'
End Sub
```

```
UserForm11 - 1
Private Sub Label6_Click()
End Sub
```
marketing research ,scope definition plan
define research objective
define research requirement
determine , selection criteria
development vendor criteria , development statemt
evaluate proposal, develom

CommandButton7
owner
days
start
end
Frame1project name
Label5

UserForm12 - 1

```
Private Sub Frame3_Click()

End Sub

Private Sub Label1_Click()

End Sub

Private Sub Label10_Click()

End Sub

Private Sub Label12_Click()

End Sub

Private Sub Label13_Click()

End Sub

Private Sub Label15_Click()

End Sub

Private Sub Label6_Click()

End Sub

Private Sub Label7_Click()

End Sub

Private Sub Label9_Click()

End Sub

Private Sub ListBox1_Click()

End Sub

Private Sub ListBox3_Click()

End Sub

Private Sub ListBox4_Click()

End Sub

Private Sub MultiPage1_Change()

End Sub

Private Sub TextBox1_Change()
```

End Sub

Private Sub UserForm_Click()

End Subbook

production

schedule

chapiter 1

chapiter 2

chapiter 3

Lchapiter 4

chapiter 5

working day budjet

technial review

content review

graphic

draft

layout

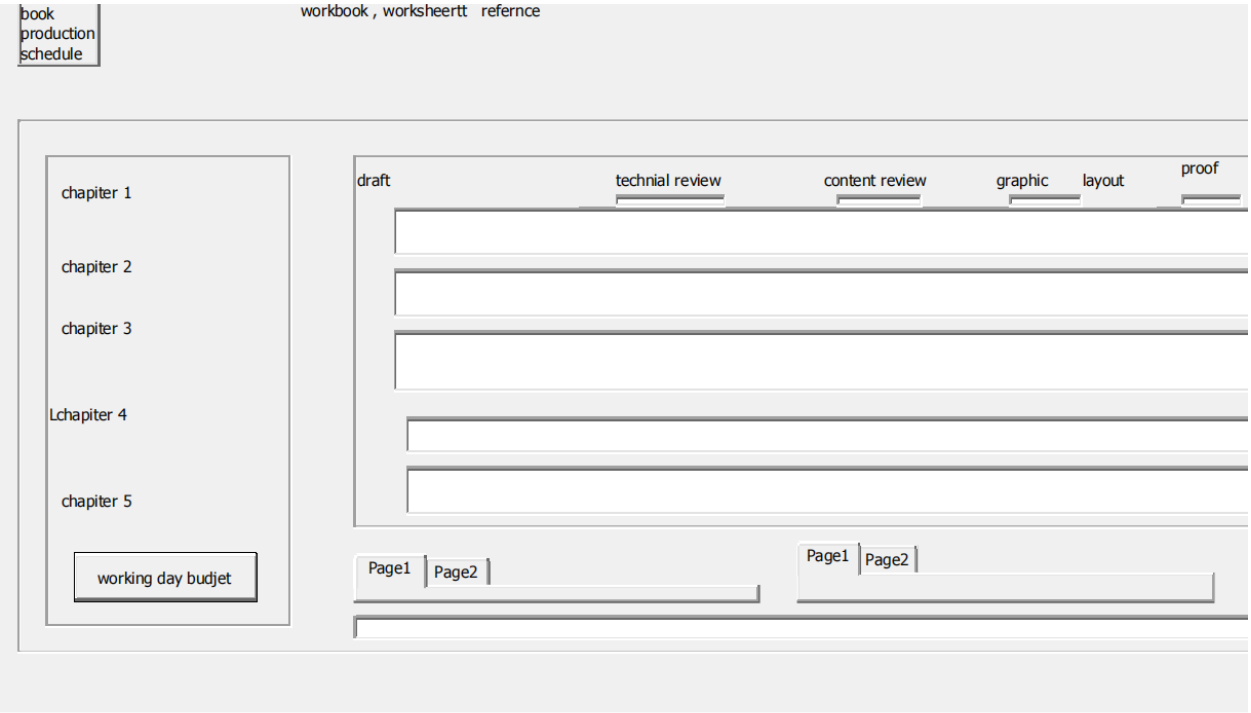
proof

Page1

Page2

Page1 Page2

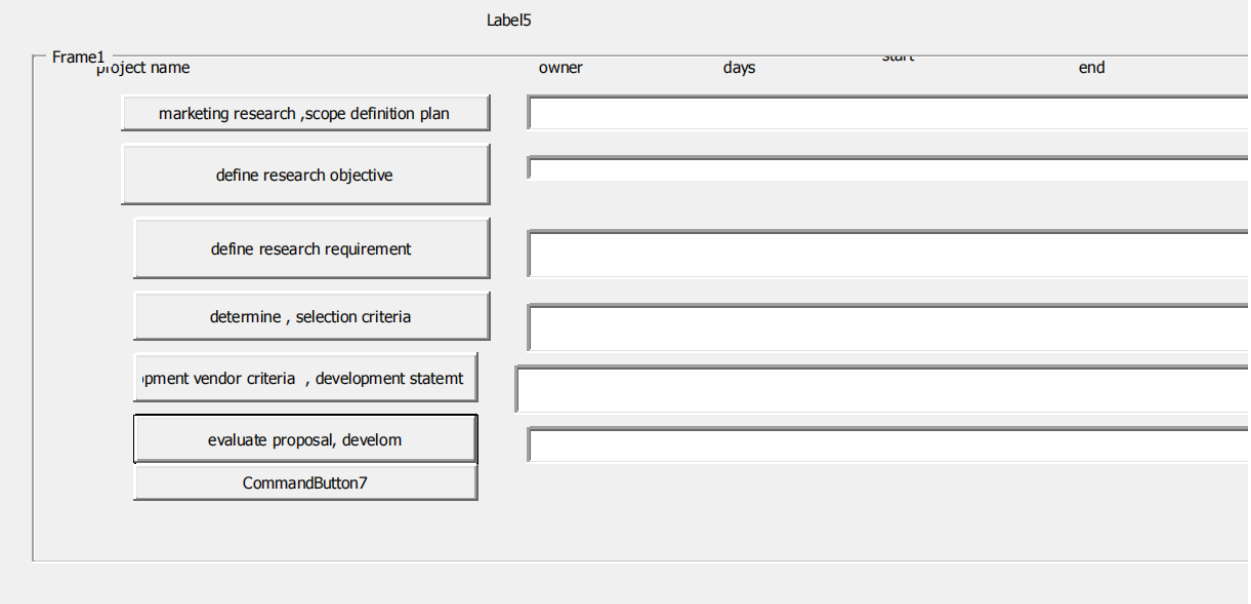
workbook , worksheertt reference



UserForm9 - 1

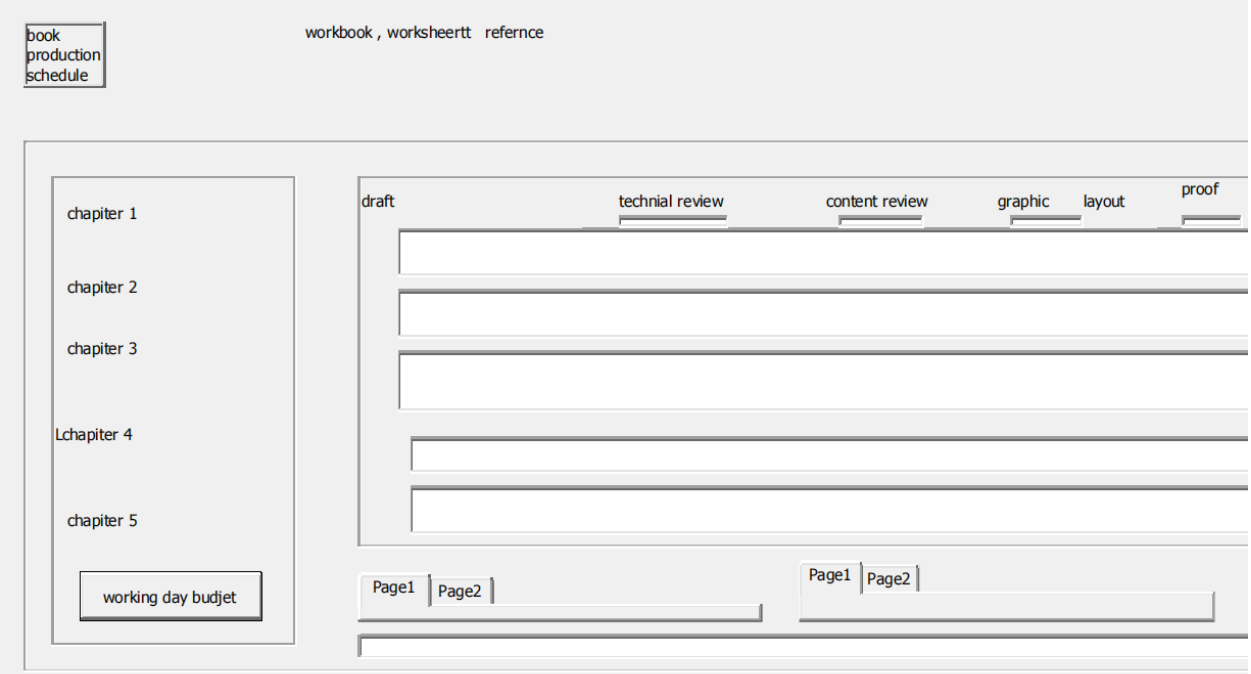
Private Sub ComboBox2_Change()
End Submark citation
deveoping nation
next citation
mark
mark all
CommandButton4
Frame1
OptionButton1

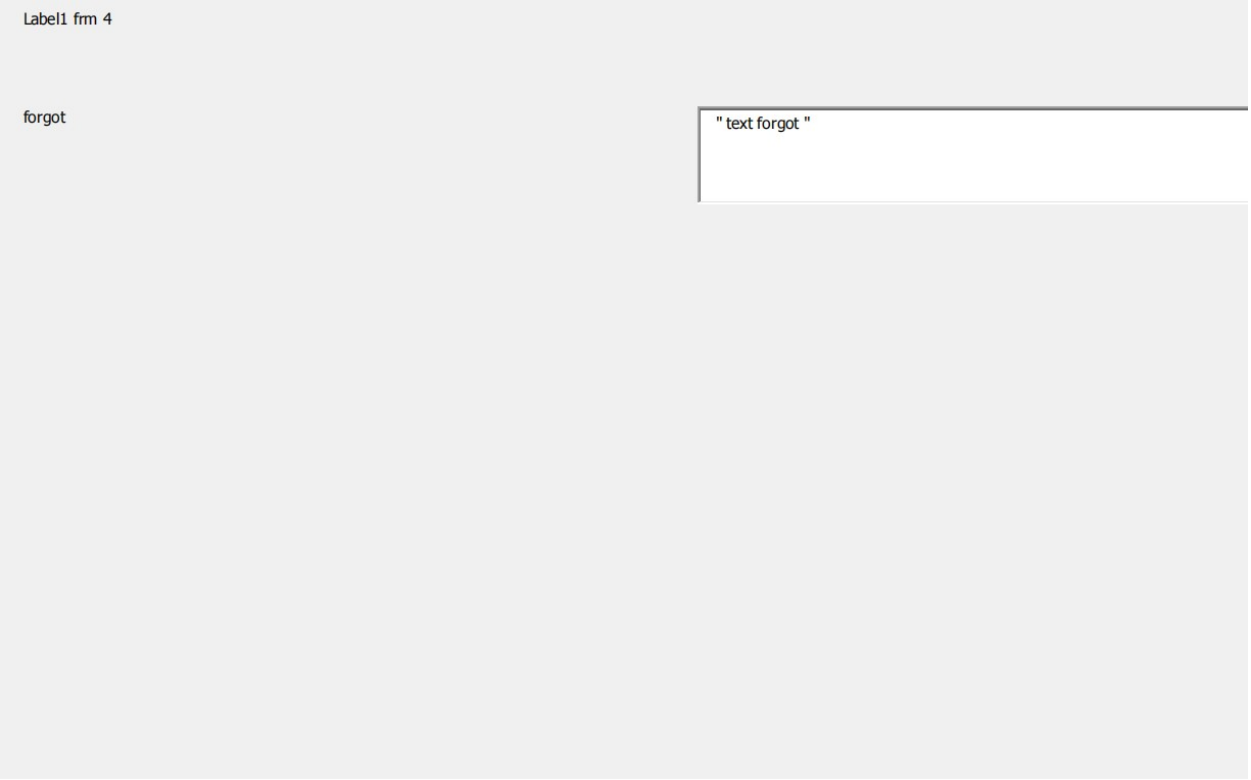
UserForm11 - 1
Private Sub Label6_Click()
End Sub

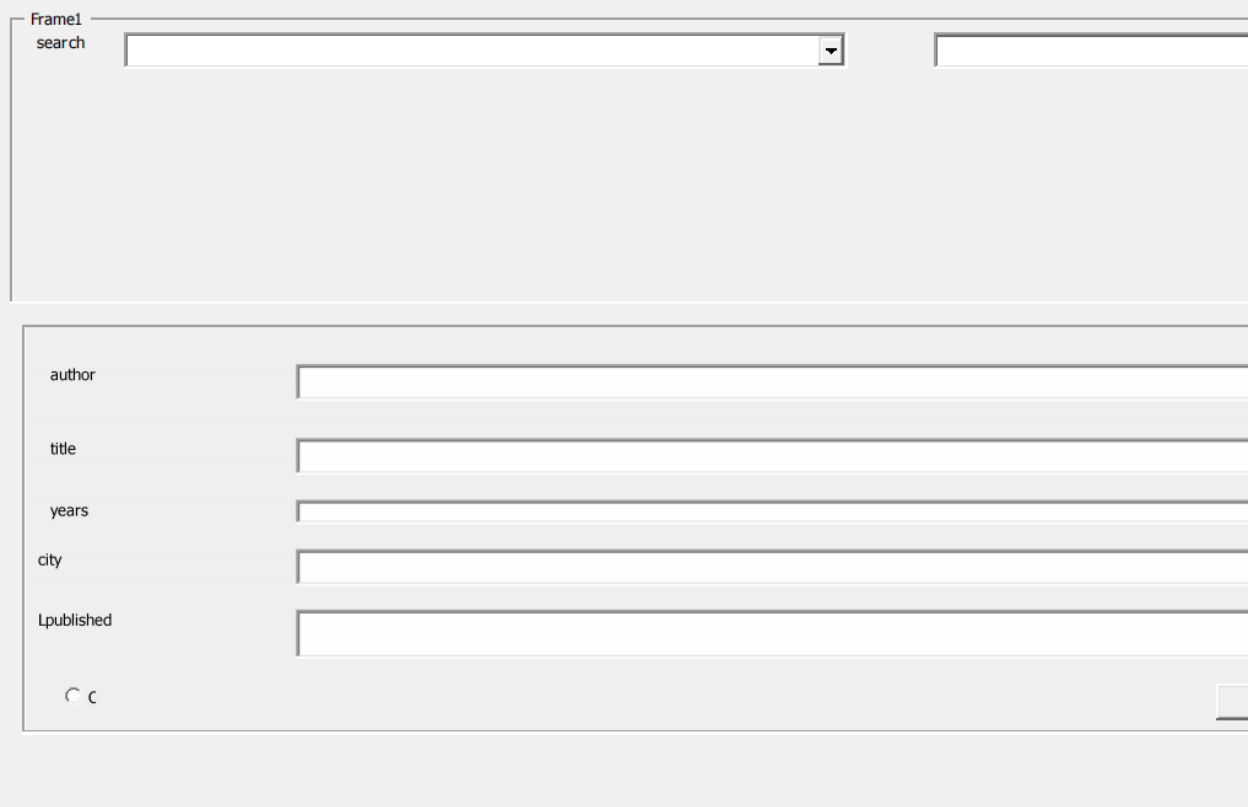


UserForm12 - 1

```
Private Sub Frame3_Click()
End Sub
Private Sub Label1_Click()
End Sub
Private Sub Label10_Click()
End Sub
Private Sub Label12_Click()
End Sub
Private Sub Label13_Click()
End Sub
Private Sub Label15_Click()
End Sub
Private Sub Label6_Click()
End Sub
Private Sub Label7_Click()
End Sub
Private Sub Label9_Click()
End Sub
Private Sub ListBox1_Click()
End Sub
Private Sub ListBox3_Click()
End Sub
Private Sub ListBox4_Click()
End Sub
Private Sub MultiPage1_Change()
End Sub
Private Sub TextBox1_Change()
End Sub
Private Sub UserForm_Click()
End Sub
```


book production schedule
workbook , worksheertt refernce
chapiter 1
chapiter 2
chapiter 3
Lchapiter 4
chapiter 5
working day budjet
draft
technial review
content review
graphic
layout
proof
Page1
Page2
Page1
Page2


Label1 frm 4
forgot
" text forgot "


Frame1
search
author
title
years
city
Lpublished
C

Frame1
search
author
title
years
city
Lpublished

file:///C:/Users/Library%20SIX/Desktop/EXCELL%20UserForm3%20TSHINGOMBE.frm

file:///C:/Users/Library%20SIX/Desktop/EXCELL%20UserForm1TSHIN.frm%20FORM.pdf%202.pdf34.frm

```
VERSION 5.00
Begin {C62A69F0-16DC-11CE-9E98-00AA00574A4F} UserForm3
   Caption         =   "UserForm3"
   ClientHeight    =   6864
   ClientLeft      =   108
   ClientTop       =   456
   ClientWidth     =   16140
   OleObjectBlob   =   "EXCELL UserForm3 TSHINGOMBE.frx":0000
   StartUpPosition =   1  'CenterOwner
End
Attribute VB_Name = "UserForm3"
Attribute VB_GlobalNameSpace = False
Attribute VB_Creatable = False
Attribute VB_PredeclaredId = True
Attribute VB_Exposed = False
```

```
VERSION 5.00
Begin {C62A69F0-16DC-11CE-9E98-00AA00574A4F} UserForm3
   Caption         =   "UserForm3"
   ClientHeight    =   6864
   ClientLeft      =   108
   ClientTop       =   456
   ClientWidth     =   16140
   OleObjectBlob   =   "EXCELL UserForm1TSHIN.frm FORM.pdf 2.pdf34.frx":0000
   StartUpPosition =   1  'CenterOwner
   WhatsThisButton =   -1  'True
   WhatsThisHelp   =   -1  'True
End
Attribute VB_Name = "UserForm3"
Attribute VB_GlobalNameSpace = False
Attribute VB_Creatable = False
Attribute VB_PredeclaredId = True
Attribute VB_Exposed = False
VERSION 5.00
Begin {C62A69F0-16DC-11CE-9E98-00AA00574A4F} UserForm3
   Caption         =   "UserForm3"
   ClientHeight    =   6864
   ClientLeft      =   108
   ClientTop       =   456
   ClientWidth     =   16140
   OleObjectBlob   =   "EXCELL UserForm1TSHIN.frm FORM.pdf 2.pdf34.frx":0000
   StartUpPosition =   1  'CenterOwner
   WhatsThisButton =   -1  'True
```

```
   WhatsThisHelp   =   -1  'True
End
Attribute VB_Name = "UserForm3"
Attribute VB_GlobalNameSpace = False
Attribute VB_Creatable = False
Attribute VB_PredeclaredId = True
Attribute VB_Exposed = False
```

file:///C:/Users/Library%20SIX/Desktop/EXCELL%20UserForm1TSHIN.frm
%20FORM.pdf3.frm

file:///C:/Users/Library%20SIX/Desktop/UserForm8%20tshingmbe.frm

```
VERSION 5.00
Begin {C62A69F0-16DC-11CE-9E98-00AA00574A4F} UserForm8
   Caption         =   "UserForm8"
   ClientHeight    =   7908
   ClientLeft      =   108
   ClientTop       =   456
   ClientWidth     =   19488
   OleObjectBlob   =   "UserForm8 tshingmbe.frx":0000
   StartUpPosition =   1  'CenterOwner
End
Attribute VB_Name = "UserForm8"
Attribute VB_GlobalNameSpace = False
Attribute VB_Creatable = False
Attribute VB_PredeclaredId = True
Attribute VB_Exposed = False
```

```
  ClientHeight    =   10020
   ClientLeft      =   108
   ClientTop       =   456
   ClientWidth     =   19728
   OleObjectBlob   =   "UserForm5tshingombe.frx":0000
   StartUpPosition =   1  'CenterOwner
   WhatsThisButton =   -1  'True
   WhatsThisHelp   =   -1  'True
End
Attribute VB_Name = "UserForm5"
Attribute VB_GlobalNameSpace = False
Attribute VB_Creatable = False
Attribute VB_PredeclaredId = True
Attribute VB_Exposed = False
Private Sub ComboBox1_Change()

End Sub

Private Sub UserForm_Activate()

End Sub

Private Sub UserForm_AddControl(ByVal Control As MSForms.Control)

End Sub

Private Sub UserForm_BeforeDropOrPaste(ByVal Cancel As MSForms.ReturnBoolean,
ByVal Control As MSForms.Control, ByVal Action As MSForms.fmAction, ByVal
Data As MSForms.DataObject, ByVal X As Single, ByVal Y As Single, ByVal
Effect As MSForms.ReturnEffect, ByVal Shift As Integer)

End Sub

Private Sub UserForm_Click()

End Sub

Private Sub UserForm_Error(ByVal Number As Integer, ByVal Description As
MSForms.ReturnString, ByVal SCode As Long, ByVal Source As String, ByVal
HelpFile As String, ByVal HelpContext As Long, ByVal CancelDisplay As
MSForms.ReturnBoolean)

End Sub

Private Sub UserForm_Initialize()

End Sub

Private Sub UserForm_KeyDown(ByVal KeyCode As MSForms.ReturnInteger, ByVal
Shift As Integer)
```

```
End Sub

Private Sub UserForm_KeyPress(ByVal KeyAscii As MSForms.ReturnInteger)

End Sub

Private Sub UserForm_MouseDown(ByVal Button As Integer, ByVal Shift As
Integer, ByVal X As Single, ByVal Y As Single)

End Sub

Private Sub UserForm_MouseUp(ByVal Button As Integer, ByVal Shift As Integer,
ByVal X As Single, ByVal Y As Single)

End Sub

Private Sub UserForm_RemoveControl(ByVal Control As MSForms.Control)

End Sub

Private Sub UserForm_Resize()

End Sub

Private Sub UserForm_Terminate()

End Sub
```

INSTALLER FILE PRACTICE ,HARD CORRECT ,LICENCE AGREEMENT,CD DRIVER,

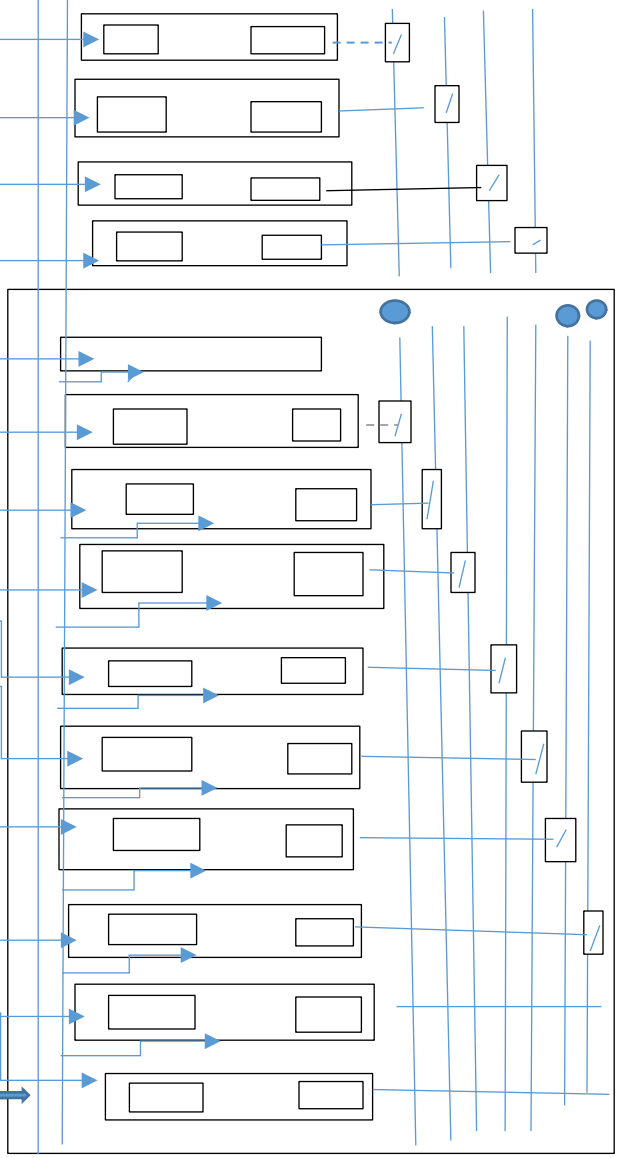
MINIMUM SYSTEM REQUIREMENT

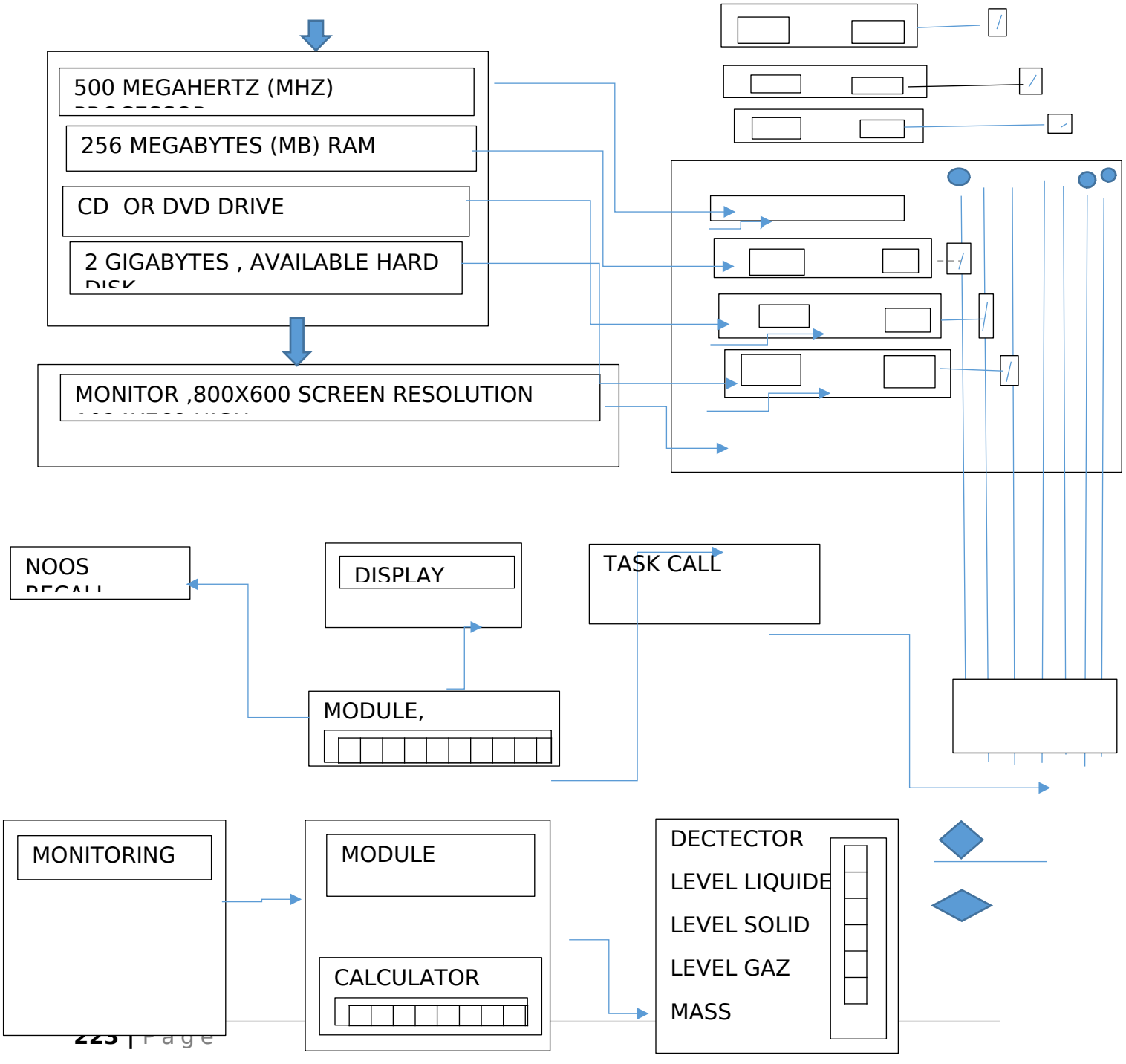
- MS OFFICE WORD
- MS OFFICE EXCEL
- MS OFFIE POWER POINT
- MS OFFICE OUTLOOK
- MS OFFICE ACCESS

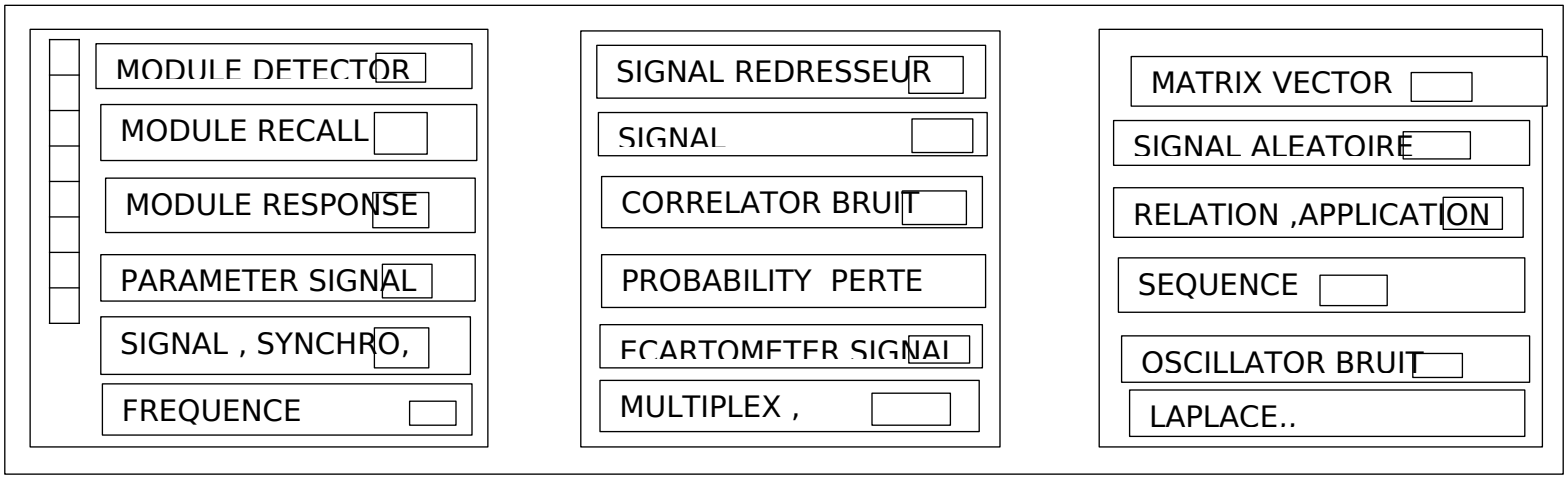
- 500 MEGAHERTZ (MHZ)
- 256 MEGABYTES (MB) RAM
- CD OR DVD DRIVE
- 2 GIGABYTES , AVAILABLE HARD

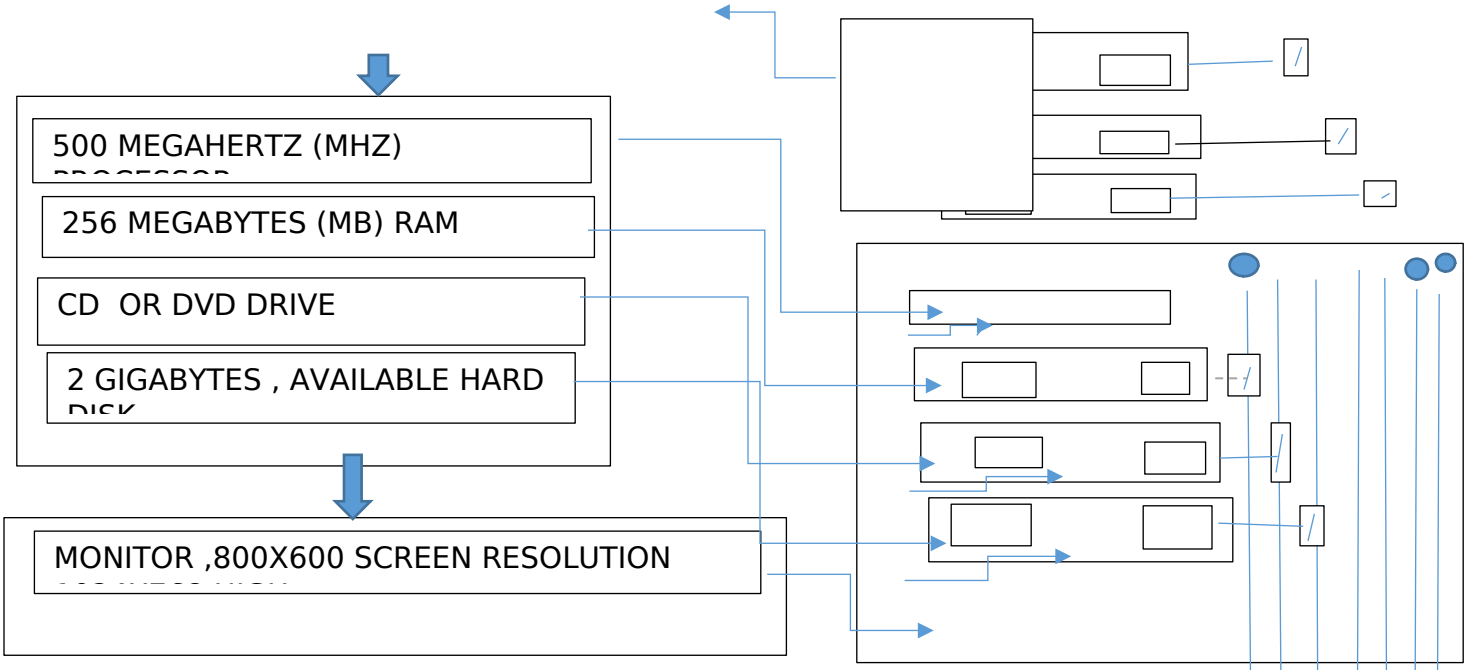
- MONITOR ,800X600 SCREEN RESOLUTION
- KEYBOARD AND MOUSE OR COMPATIBLE
- INTERNET AND CONNECTION ,128
- WINDOWS VISTA OR LATER
- WORD 2007, HARDWARE SOFTWARE
- ACESS TO PRINTER

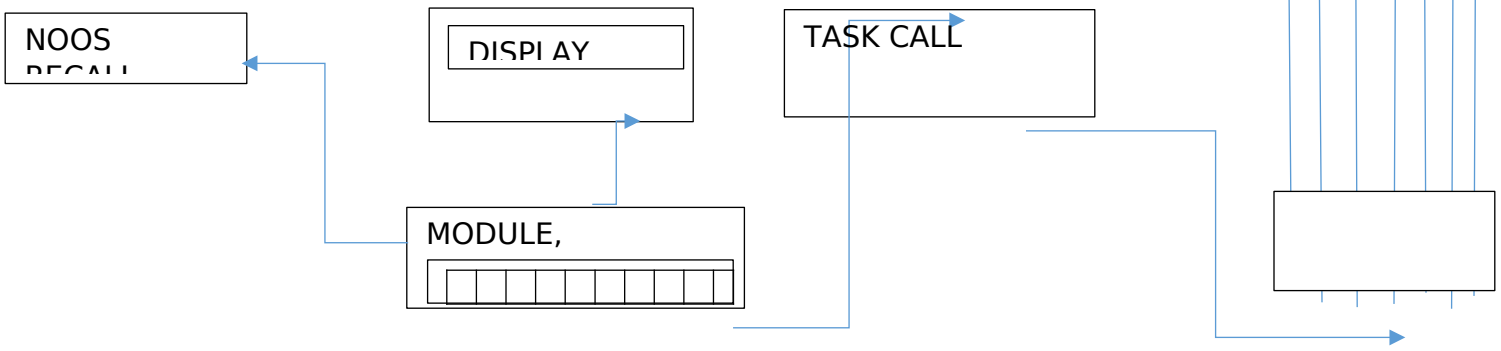
INSTALLATION PROGRAMS REQUIUREMENT




500 MEGAHERTZ (MHZ)
256 MEGABYTES (MB) RAM
CD OR DVD DRIVE
2 GIGABYTES , AVAILABLE HARD
MONITOR ,800X600 SCREEN RESOLUTION
NOOS
DISPLAY
TASK CALL
MODULE,
MONITORING
MODULE
CALCULATOR
DECTECTOR
LEVEL LIQUIDE
LEVEL SOLID
LEVEL GAZ
MASS


MODULE DETECTOR
MODULE RECALL
MODULE RESPONSE
PARAMETER SIGNAL
SIGNAL , SYNCHRO,
FREQUENCE
SIGNAL REDRESSEUR
SIGNAL
CORRELATOR BRUIT
PROBABILITY PERTE
ECARTOMETER SIGNAL
MULTIPLEX ,
MATRIX VECTOR
SIGNAL ALEATOIRE
RELATION ,APPLICATION
SEQUENCE
OSCILLATOR BRUIT
LAPLACE..


500 MEGAHERTZ (MHZ)
256 MEGABYTES (MB) RAM
CD OR DVD DRIVE
2 GIGABYTES , AVAILABLE HARD
MONITOR ,800X600 SCREEN RESOLUTION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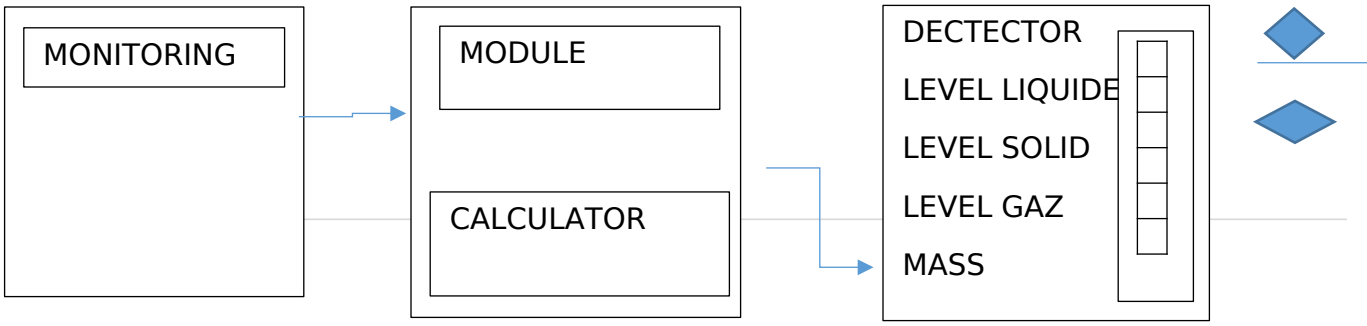
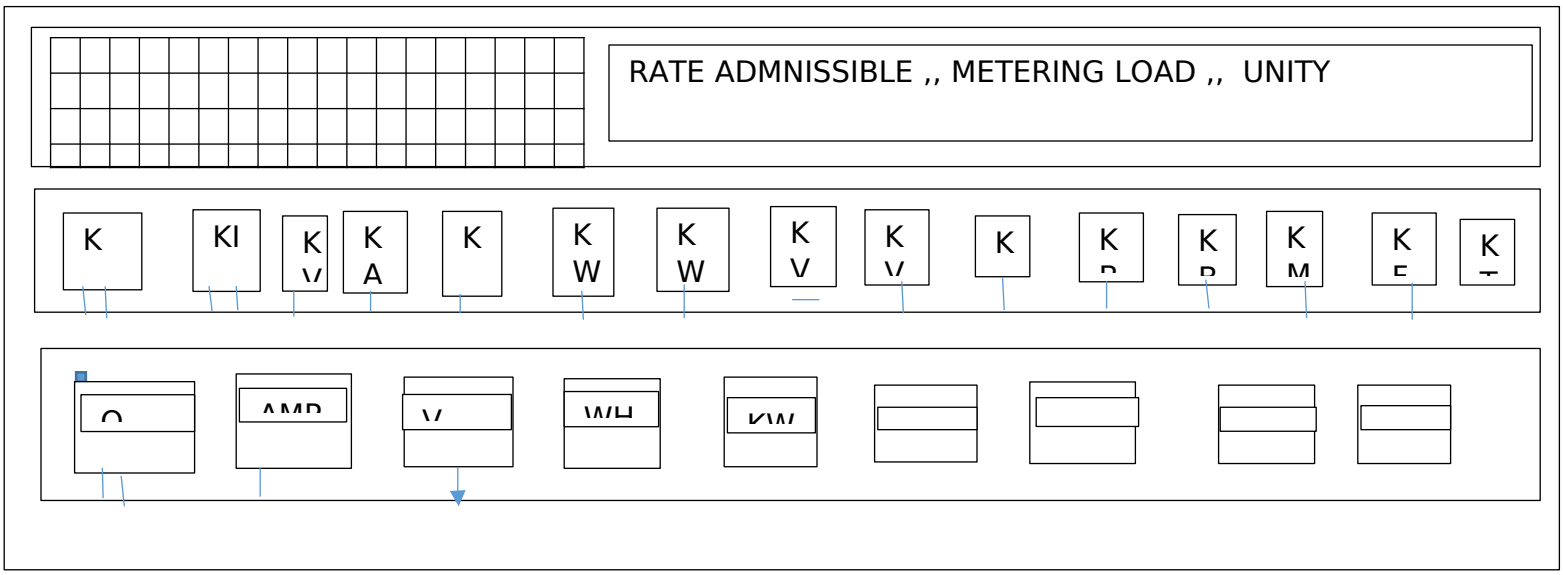
TASK CALL
MODULE,


MONITORING
MODULE
CALCULATOR
DECTECTOR
LEVEL LIQUIDE
LEVEL SOLID
LEVEL GAZ
MASS


RATE ADMNISSIBLE ,, METERING LOAD ,, UNITY
K
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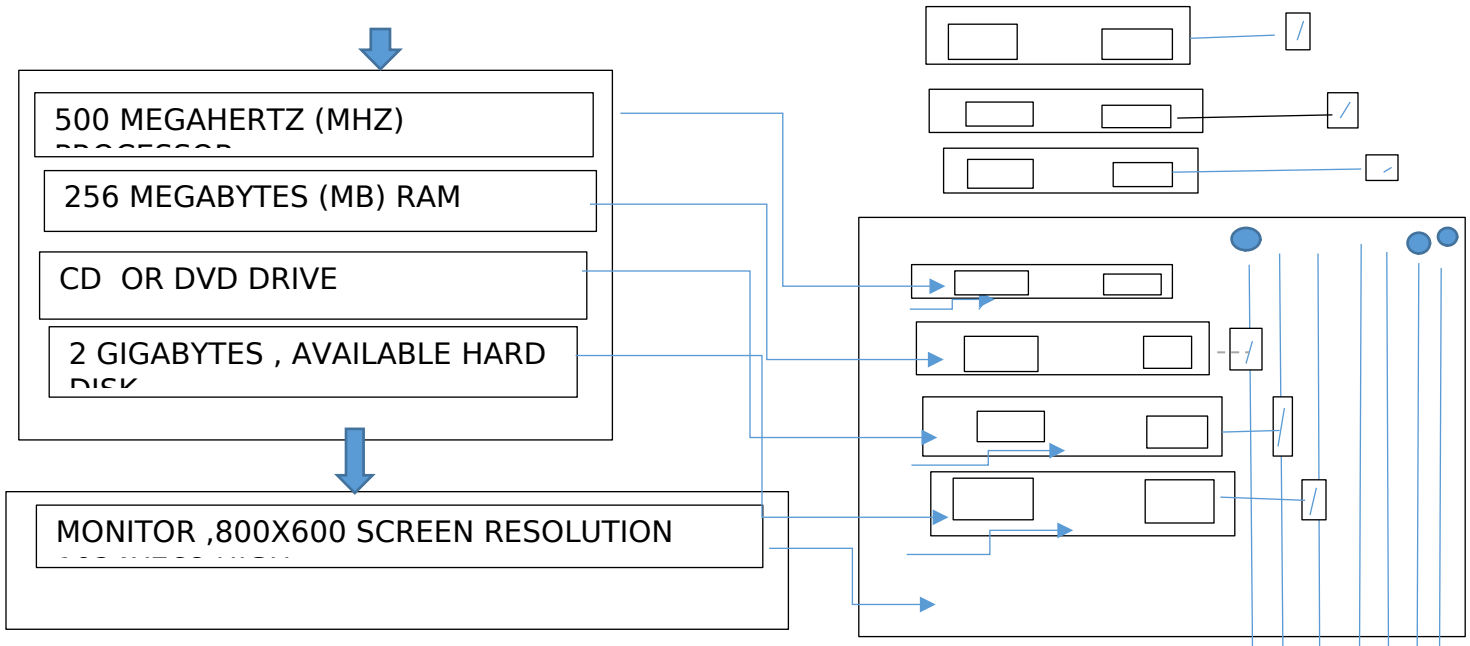
500 MEGAHERTZ (MHZ)
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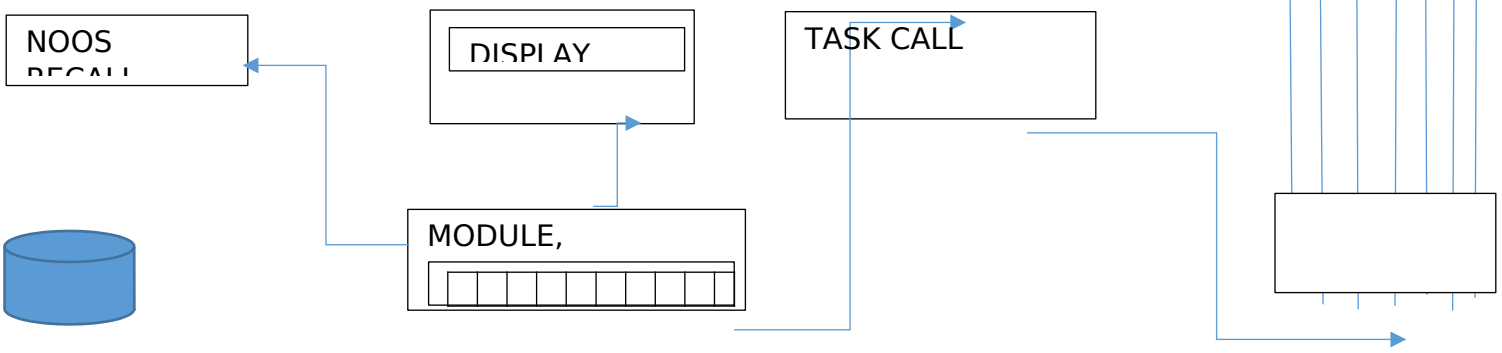
NOOS
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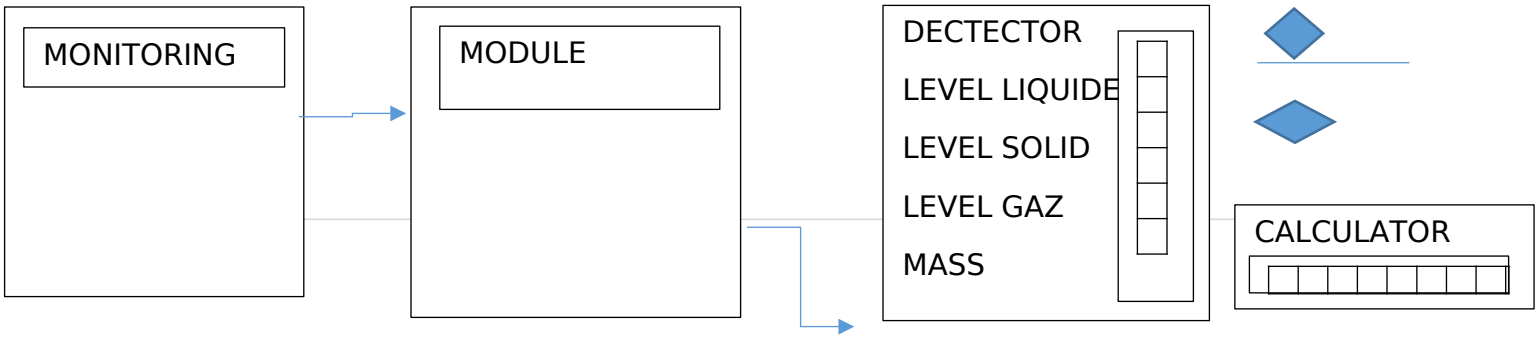

MONITORING
MODULE
DECTECTOR
LEVEL LIQUIDE
LEVEL SOLID
LEVEL GAZ
MASS
CALCULATOR

Colum	Colum	Colum	Colum	Colum	Colum	Colum	Colum	Column	Colu

n2	n3	n4	n5	n6	n7	n8	n9	10	11
CHARGE	CURRENT	QUATITY AH		VOLTAGE	VOLT AMP		WATH	COS	KWH

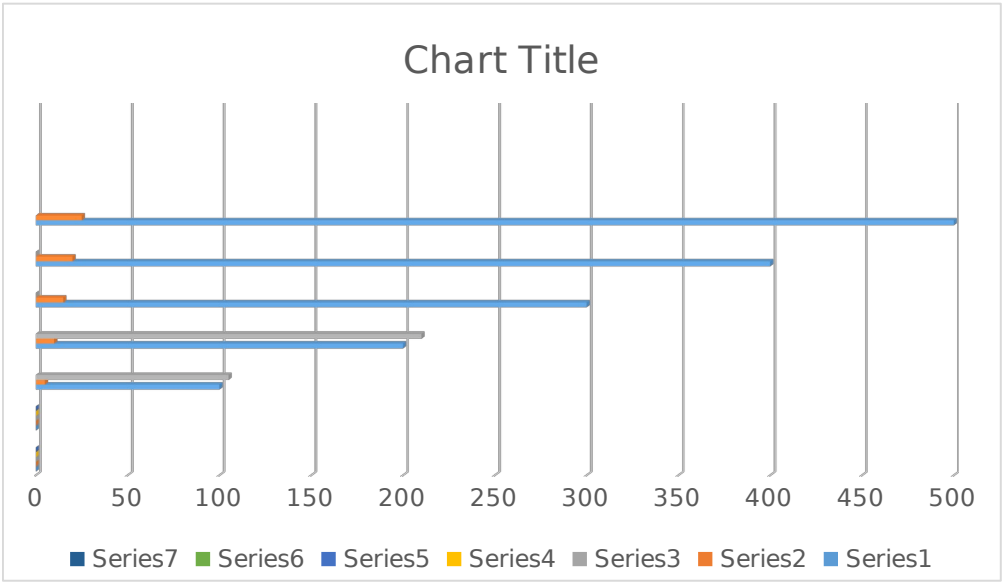
Column1	Column2	Column3	Column4	Column5	Column6
GHZ	BIT GI HERTZ		OCTAL	PIXEL	

MARK

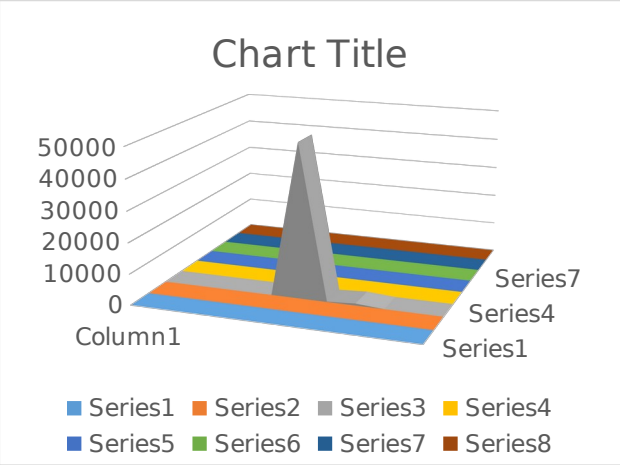
0

Column1	Column2	Column3	Column4	Column5
QUATITY	PRICE EACH	SUBTOTAL	DISCOUNT	TOTAL
100	5	105		
200	10	210		
300	15	)		
400	20	)		
500	25			

#VALUE!

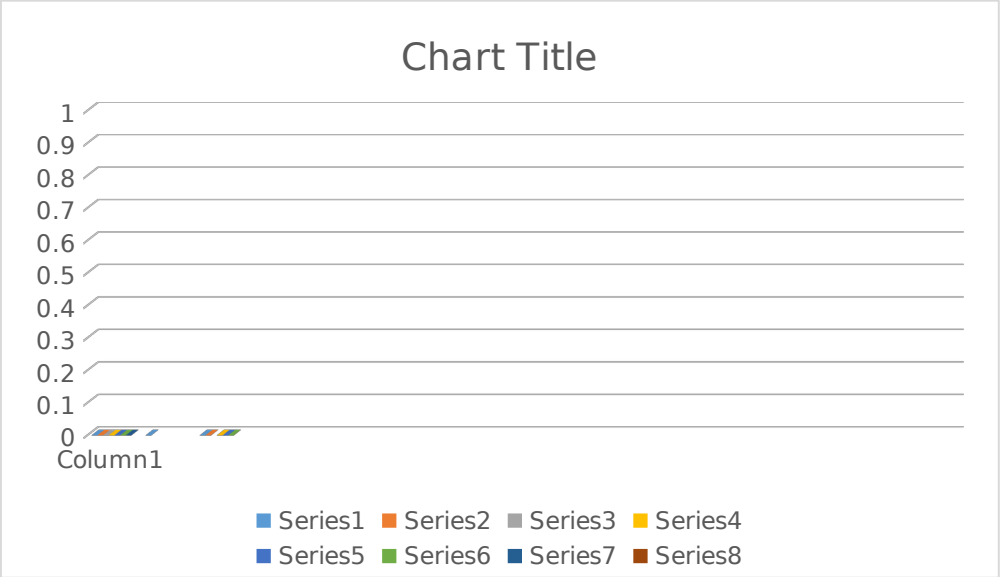


Column1	Column2	Column3	Column4	Column5	Column6	Column7	Column8
	NAME MANAGER						
	NAME MANAGER		VALUE	REFERS TO	SCOPE	COMMENT	
	INTEREST		10%		WORKBOOK	ANNUAL INTERST RATE	
	LOAN AMOUNT		50000		WORKBOOK	INTIAL AMOUNT	
	MONTH		120		WORKBOOK		
	PAYMENT		660		WORKBOOK		

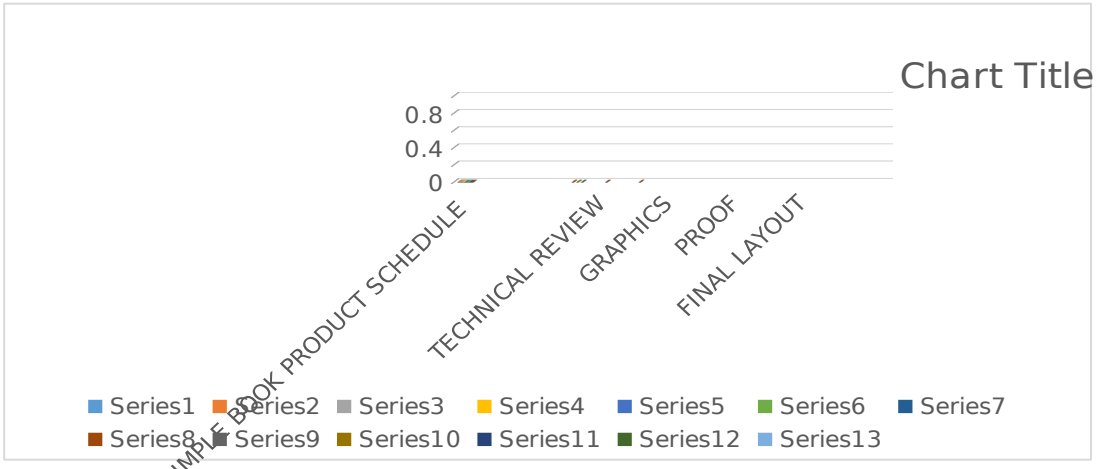


0

Column1	Column2	Column3	Column4	Column5	Column6	Column7	Column8
	OUTLINE DATA						
	DAYS WITH A	DAYS WAS GOOD		MAXIMUN	90 TH PERCENTILE	MEDIAN	
Column1	Column2	Column3	Column4	Column5	Column6	Column7	Column8



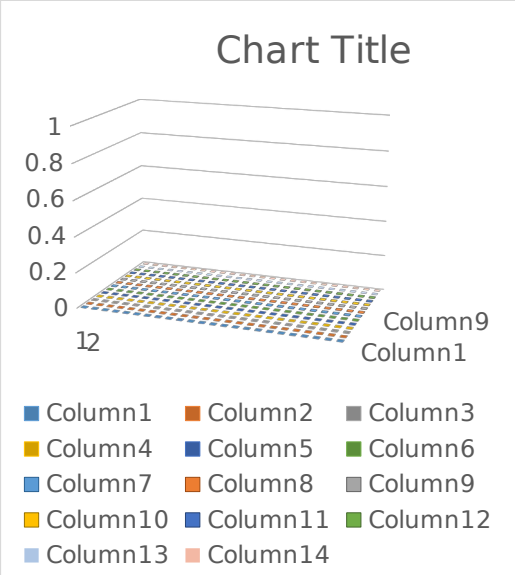
ORDR	CUSTOMER	ORDER	SHIPPED DATA	FREIGTH	SHIP NAME



Column1	Column2	Column3	Column4	Column5	Column6	Column7	Column8
N71F69A60:N70	WORKSHET REFERENCE						
	SIMPLE BOOK PRODUCT SCHEDULE			DRAFT 1	TECHNICAL REVIEW	CONTENT REVIEW	GRAPHICS
	START DATE						
	WORKIG DAYS BUDGET						
	CHAPTER1						
	CHAPTER1						
	CHAPTER1						
	CHAPTER1						
	CHAPTER1			WORKDAYS	WORK DAYS	0	
				WORKDAYS			
				WORKDAYS			

Column1	Column2	Column3	Column4	Column5	Column6	Column7	Column8
#NAME?	Column2	Column3	Column4	Column5	Column6	Column7	Column8
N71F69A60:N70	WORKSHET REFERENCE						
	SIMPLE BOOK PRODUCT SCHEDULE			DRAFT 1	TECHNICAL REVIEW	CONTENT REVIEW	GRAPHICS
	START DATE						
	WORKIG DAYS BUDGET						
	CHAPTER1						
	CHAPTER1						

	CHAPTER1			
	CHAPTER1			
	CHAPTER1	WORKDAYS	WORK DAYS	0
		WORKDAYS		
		WORKDAYS		
	TABBLE ANALYSER WIZARD			
	ORIIGINAL PRODUCT			

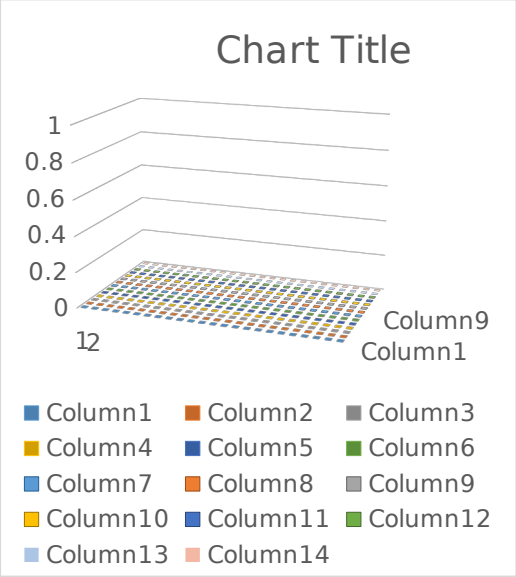


Column1	Column2	Column3	Column4	Column5	Column6	Column7	Column8	Column9	Col 10
PRODUCT ID		UNITY PRICE			VALUE OF INVENTORY UNITS STOCK				FIEL
PRODUCT ID									TAB
COUNT		AV			SUM				TOT
									SOR
									SHO
									CRIT
									OR

Column1	Column2	Column3	Column4	Column5	Column6	Column7	Column8	Column9	Col 10
FIST NAME		LAST NAME		PHONE NUMBER		CITY		FIELD	
CUSTOMERS		CUSTOMERS		CUSTOMER		CUSTOMERS		TABLE	
								SORT	
ORDER		CUSTOMER ID		EMPLOYEER ID		ORDER DATE			

ID			
ORDERS	ORDERS	ORDERS	ORDERS

Column1	Column2	Column3	Column4	Column5	Column6	Column7	Column8	Column9	Col 10
REPORT HEADER CUSTOMES									
CUSTOMERS ID			FIRST NAME		LAST NAME		AD		



MACRO RECORD VIEW

```
UserForm1 - 1
Private Sub Label1_Click()
End Sub
Private Sub Label10_Click()
End Sub
Private Sub Label13_Click()
End Sub
Private Sub Label17_Click()
End Sub
Private Sub Label20_Click()
End Sub
Private Sub Label25_Click()
End Sub
Private Sub Label7_Click()
End Sub
Private Sub Label8_Click()
End Sub
Private Sub TextBox10_Change()
End Sub
Private Sub TextBox12_Change()
End Sub
Private Sub TextBox19_Change()
End Sub
Private Sub TextBox4_Change()
End Sub
Private Sub TextBox6_Change()
End Sub
Private Sub TextBox8_Change()
```

```
End Sub
Private Sub TextBox9_Change()
End Sub
Private Sub TextBox9_DblClick(ByVal Cancel As MSForms.ReturnBoolean)
End Sub
Private Sub TextBox9_DropButtonClick()
End Sub
Private Sub TextBox9_Error(ByVal Number As Integer, ByVal Description As
MSForms.ReturnString, ByVal S
Code As Long, ByVal Source As String, ByVal HelpFile As String, ByVal HelpContext As Long,
ByVal Cance
lDisplay As MSForms.ReturnBoolean)
End SubUserForm1 - 2
Private Sub TextBox9_KeyDown(ByVal KeyCode As MSForms.ReturnInteger, ByVal Shift As
Integer)
End Sub
Private Sub TextBox9_KeyPress(ByVal KeyAscii As MSForms.ReturnInteger)
End Sub
Private Sub TextBox9_MouseDown(ByVal Button As Integer, ByVal Shift As Integer, ByVal X
As Single, ByV
al Y As Single)
End SubUserForm2 - 1
Private Sub CommandButton69_Click()
End Sub
Private Sub CommandButton7_Click()
End Sub
Private Sub CommandButton70_Click()
End Sub
Private Sub CommandButton8_Click()
End Sub
Private Sub CommandButton9_Click()
End Sub
Private Sub Frame1_Click()
End Sub
Private Sub Frame2_Click()
End Sub
Private Sub Frame3_Click()
End Sub
Private Sub Label1_Click()
End Sub
Private Sub TextBox1_Change()
End Sub
Private Sub TextBox2_Change()
End Sub
Private Sub UserForm_Click()
End SubModule1 - 1
Sub Macro1()
'
' Macro1 Macro
' ENGINEER
'
'
Range("I15").Select
Application.Goto Reference:="Macro1"
ActiveWorkbook.Save UserForm2 - 1
```

```
Private Sub CommandButton69_Click()
End Sub
Private Sub CommandButton7_Click()
End Sub
Private Sub CommandButton70_Click()
End Sub
Private Sub CommandButton8_Click()
End Sub
Private Sub CommandButton9_Click()
End Sub
Private Sub Frame1_Click()
End Sub
Private Sub Frame2_Click()
End Sub
Private Sub Frame3_Click()
End Sub
Private Sub Label1_Click()
End Sub
Private Sub TextBox1_Change()
End Sub
Private Sub TextBox2_Change()
End Sub
Private Sub UserForm_Click()
End Sub1
2
3
4
5
6
7
8
9
0
+
-
/
X
=
DELETE
ON
OFF
[
]
A
B
C
F
G
H
L
Q
U
M
N
R
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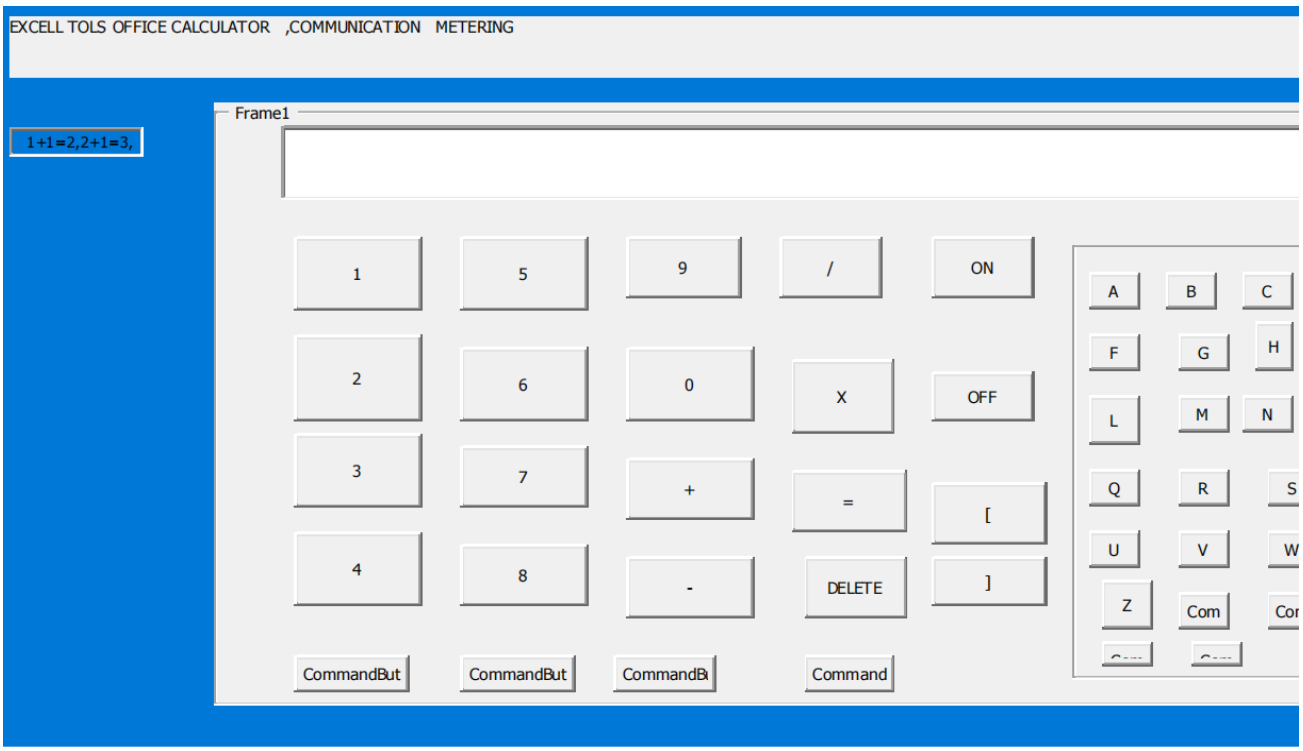
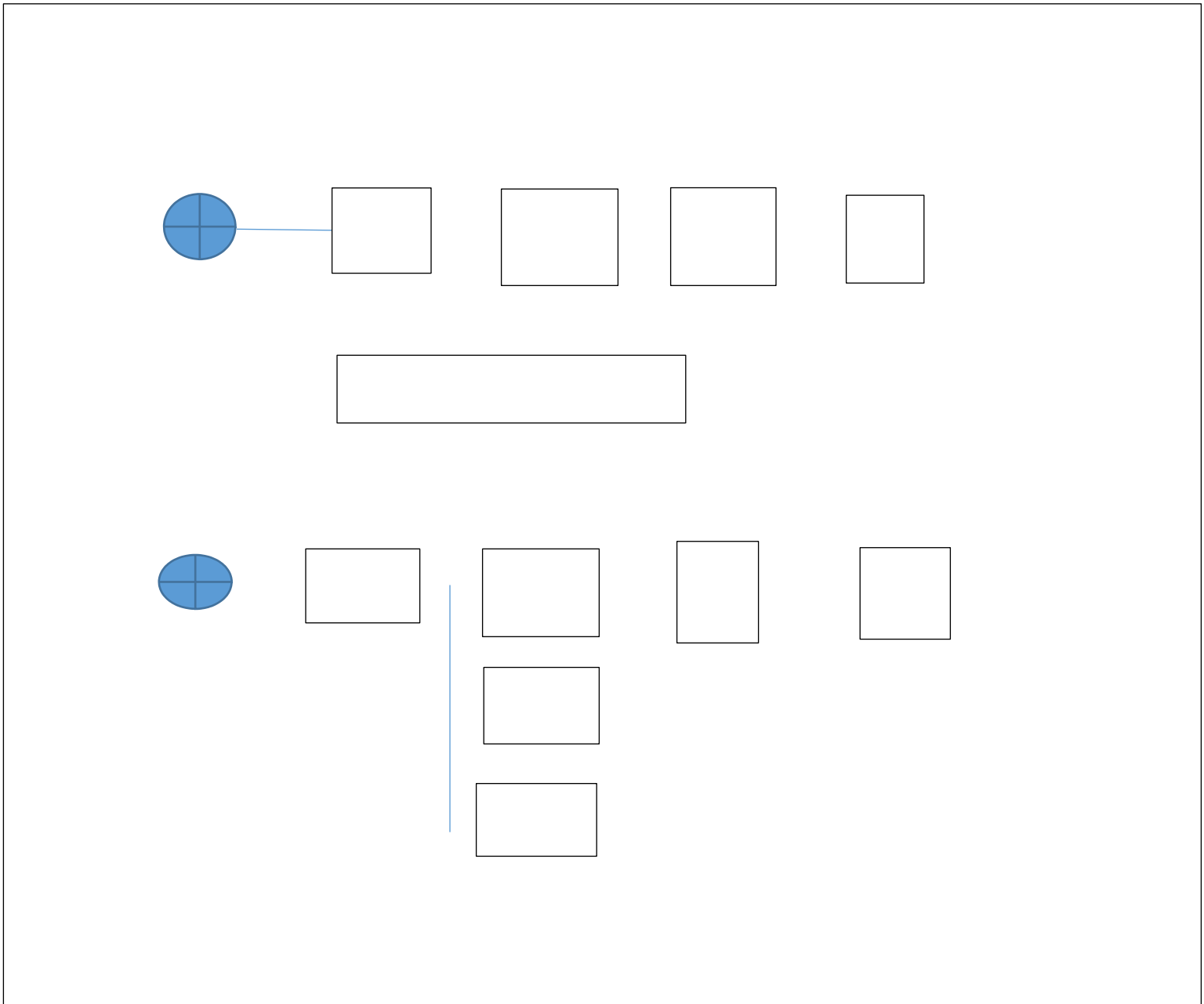
```

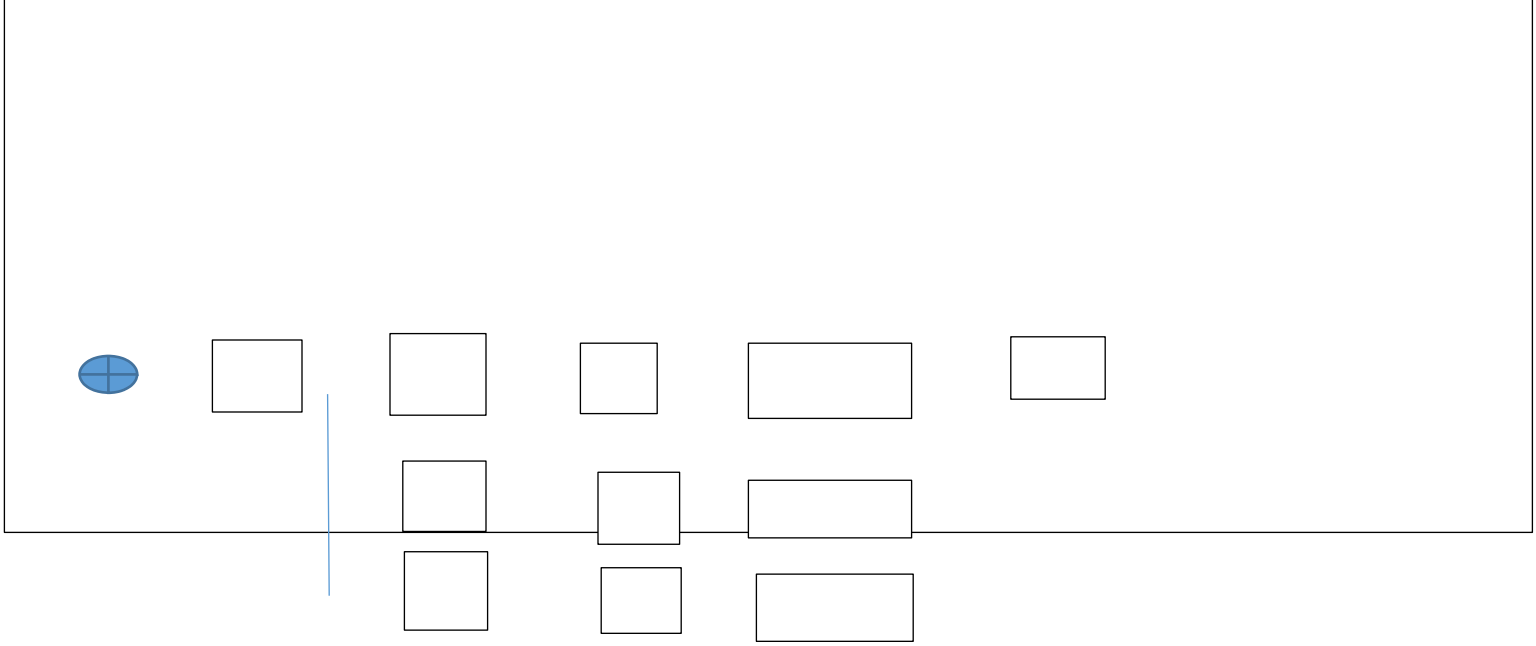
CommandBut
CommandBut
CommandBu
Command
Frame1
EXCELL TOLS OFFICE CALCULATOR ,COMMUNICATION METERING
1+1=2,2+1=3,
End Sub

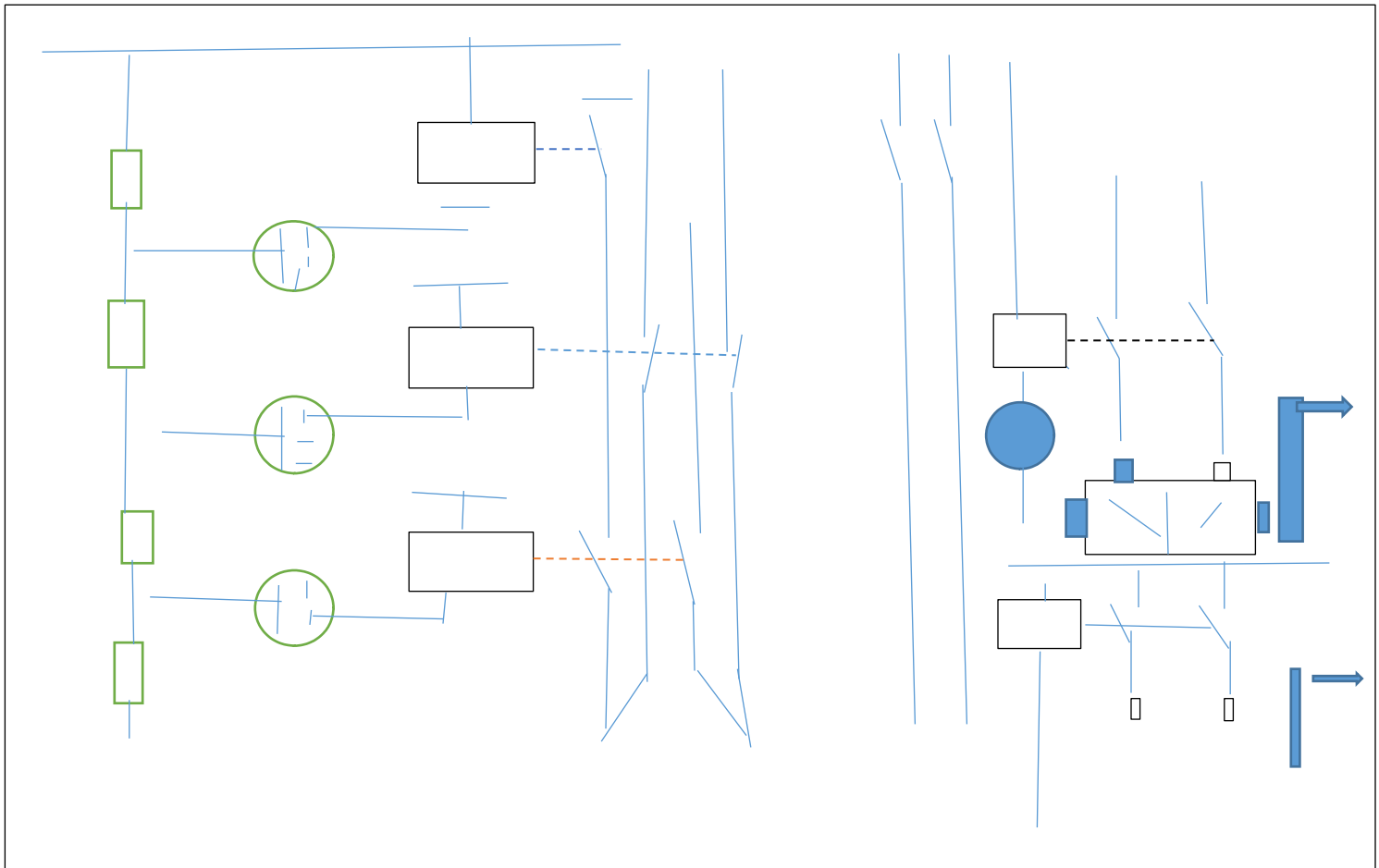


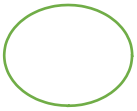

```
VERSION 5.00
Begin {C62A69F0-16DC-11CE-9E98-00AA00574A4F} UserForm1
```

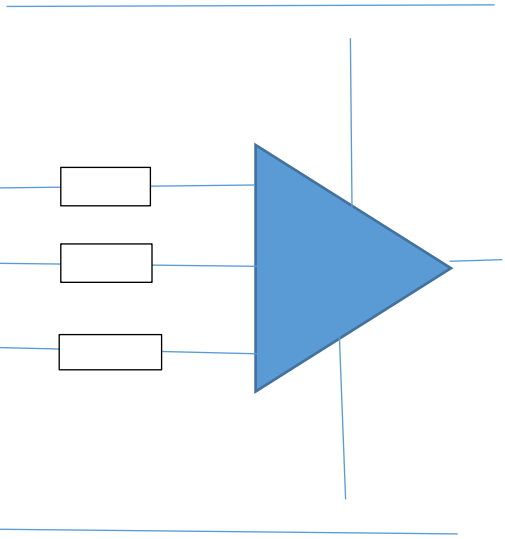
```
   Caption         =   "UserForm1"
   ClientHeight    =   9024
   ClientLeft      =   108
   ClientTop       =   456
   ClientWidth     =   19812
   OleObjectBlob   =   "EXCELL UserForm1TSHIN.frm FORM.pdf MATERIAL
INSTALLER.pdf 2 CALCULAR HARDWARE.pdf, POWER  ...frx":0000
   StartUpPosition =   3  'Windows Default
   WhatsThisButton =   -1  'True
   WhatsThisHelp   =   -1  'True
End
Attribute VB_Name = "UserForm1"
Attribute VB_GlobalNameSpace = False
Attribute VB_Creatable = False
Attribute VB_PredeclaredId = True
Attribute VB_Exposed = False
```

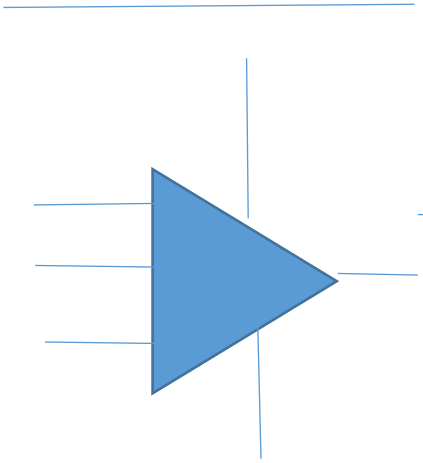


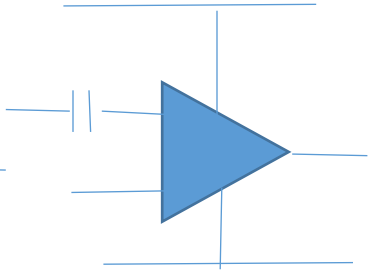


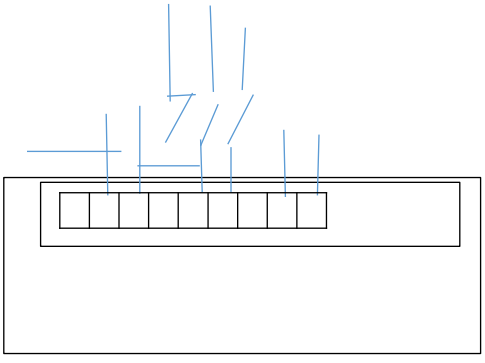


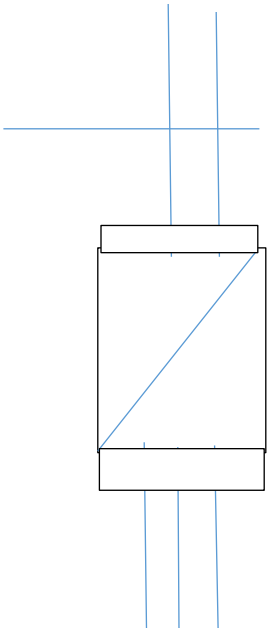


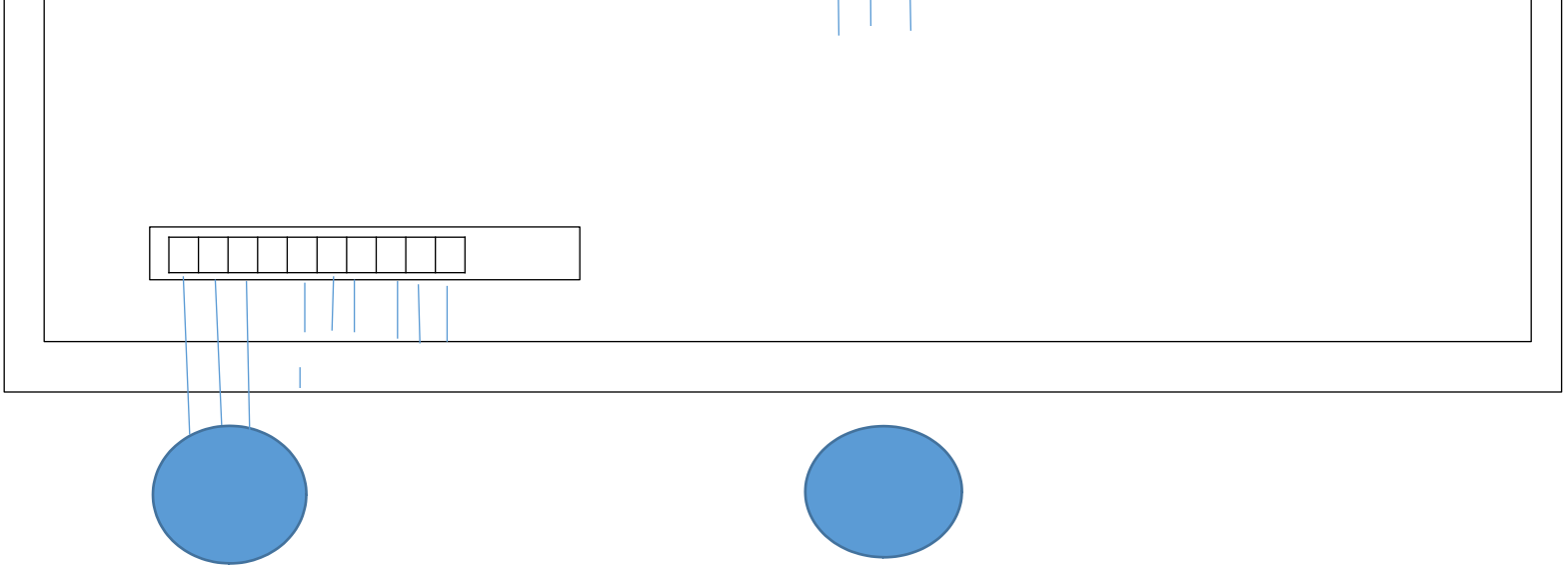












- Calculate modulation index mm for amplitude modulation (AM): $$m = \frac{
- Determine the bandwidth of frequency-modulated (FM) signals using Carson's

- **Signal-to-Noise Ratio (SNR)**
  - Calculate the SNR for a communication system: $$\text{SNR} = 10 \log_{10}

3. Information Theory

- **Entropy and Information Content**
  - Calculate the entropy H(X)H(X) of a discrete random variable XX: $$H(X) = -\s
- **Channel Capacity**
  - Determine the channel capacity CC using the Shannon-Hartley theorem: $$C

4. Network Theory

- **Network Topologies and Protocols**
  - Analyze network performance metrics such as latency, throughput, and packe
  - Use queuing theory to model and evaluate network performance.

5. Electromagnetic Theory

- **Maxwell's Equations**
  - Apply Maxwell's equations to solve for electric and magnetic fields in commun

mathbf{B}}{\partial t}$$ $$\nabla \times \mathbf{B} = \mu_0 \mathbf{J} + \mu_0 \epsilon_0 \

6. Digital Communication

- **Error Detection and Correction**
  - Calculate the Hamming distance and error-detecting/correcting capabilities of
  - Use cyclic redundancy check (CRC) to detect errors in transmitted dat

- **Smart Buildings:** Engineers use IoT and control systems calculations to design sma
lighting controls, and security systems.

- **Transportation Infrastructure:** Calculations related to power distribution, signal p
management systems.

8. Biomedical Engineering

- **Medical Devices:** Engineers use signal processing and control system calculations
reliable operation of medical equipment.

- **Wearable Technology:** Calculations for power efficiency and signal processing are

These examples highlight the critical role of electrical engineering calculations in ensuring the e
in mind, I can provide more detailed examples or explanations.

To resolve calculations related to a Master's program in Electrical Engineering with a focus on co
breakdown:

1. Signal Processing

- **Fourier Transforms and Spectral Analysis**
    - Calculate the Fourier transform X(f)X(f) of a time-domain signal x(t)x(t): $$X(f
    - Use spectral analysis to identify frequency components and bandwidth.
- **Filter Design**
    - Design digital filters using the Z-transform and filter specifications (e.g., cutof
    - `Analyze filter respo+F4640:F4664nse and stability.`

1. **Circuit Analysis**
    - **Ohm's Law:** V=IRV = IR
    - **Power Calculations:** P=VIP = VI, P=I2RP = I^2R
    - **Kirchhoff's Laws:** Kirchhoff's Voltage Law (KVL) and Kirchhoff's Current Law (KCL)
    - **Impedance and Reactance:** Calculating the impedance (ZZ) of AC circuits, inducti
(XC=12πfCX_C = \frac{1}{2\pi fC})

2. **Electromagnetics**
    - **Coulomb's Law:** F=keq1q2r2F = k_e \frac{q_1 q_2}{r^2}
    - **Electric Field Calculations:** E=FqE = \frac{F}{q}
    - **Magnetic Field Calculations:** Using Biot-Savart Law and Ampère's Law

3. **Signal Processing**
    - **Fourier Transforms:** Transforming signals from time domain to frequency domain
    - **Laplace Transforms:** For analyzing linear time-invariant systems
    - **Z-Transforms:** Used in digital signal processing for discrete-time signals

4. **Control Systems**
    - **Transfer Functions:** H(s)=Y(s)X(s)H(s) = \frac{Y(s)}{X(s)}
    - **Stability Analysis:** Using Routh-Hurwitz criterion, Nyquist criterion, and Bode plots
    - **PID Controller Tuning:** Calculations for proportional, integral, and derivative gains

5. **Power Systems**
    - **Load Flow Analysis:** Solving the power flow equations using methods like Newton-
    - **Short Circuit Calculations:** Determining the fault current levels in a power system
    - **Power Factor Correction:** Calculations to improve the power factor of electrical lo

- * key purpose : of teaching electrical engt teach engineering in electronics industrial concept
Years teach studying : study of single phase and tree phase regime ,transformer , and DC sync
- the single phase regime ..
Writing sinusoidt quantitit written sinusoidal.

1. u= Um.cos(wt+j) strictly instaneously voltage ,u(t)= with v amplitude,w pulsation ,rad,initial
- average value of a periodic quantity.
u>= 1/T.integral.(t) .udt.. for a sinusoidal .sinusoidal signal,< u>= 0.. vs effective value of period
u=o1/T.integral (t).u2.dt..rms for root means square indicator..
Zu=UO×2 cos (wt+j).
RMS value value is that indicated volt metre and ammeter electrotechnical ..
- vector representation fresnel ,,ox instaneously,, voltage u= UO3.cos (wt+j) vector associated ,
- u in projection on (Ox,)..
Courent I=io×2cos×(wt+j) draw ..
- complex notation .
The additional substration two quanties same pulsation.
u1=U1×.O2 ×cos×(wt+j#) of u3= U.2.O2 .cos (wt+j2..
- u = U.×O.2cos×(wt+1)
- construction vector ,U= U1+U2..
Derivation / integration of sinusoidal quantity give ,, P/2 integrating means module ,back P/2..
* Power in single - phase regime receiving sign system receive if energy ..
P= u×i×(watt - W) ..
- activzgion average value instaneously value of in the case of ,periodic quanties periodic ..
T: P= <p>=1/T.× integral (T) .pdt(watt ..
In case sinusoidal voltage ,u= UO3× cos (wt)..
I= IO"2.× cos (wt + j)..
P= U×Icosj+U×I.cos (2wt+j)..
Scale ..
P= I×U× cos the active power in single phase ..
- P= U.I ,scalar product ..
S=I.U. Amp..
K= P/S..
12 cos a.cosb= cos (a+b)+(a-b)
- reactive power in sinusoidal regime ..
The reactive power in sinusoidal..
Q=.u× I× sin j reactive ..
- A= 'O' S3-O3..
- tan j= A/P .cos j = P/ s
Sin j = A/s vectorially ..
- A= U. I

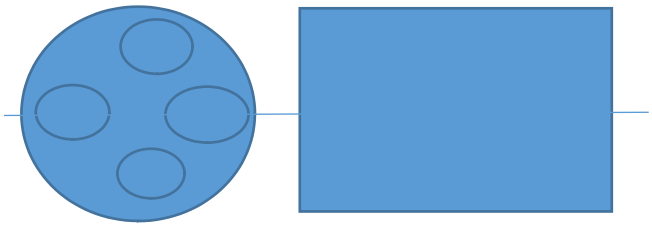
Engineering electrical..
Impedance..V1=Z.I1
V2=Z.I12,,,V3=Z.13
Lead ,,V= Z.I ..
- jk = UK/ Z5k = @,2,3 ..
Law of node ik= - j'0'jk
I1=j2-j3
i1=j3-j2
i3=j1-j2..
Ok= 3vk/z=vk/(z/3)..
..u1+U2+u3=o..
J1,j2,j3..
J1+j2+j3=0....
- equivalent: balance and symmetrical tree phase network sinusoidal regime line impedance vs p
Instaneously:

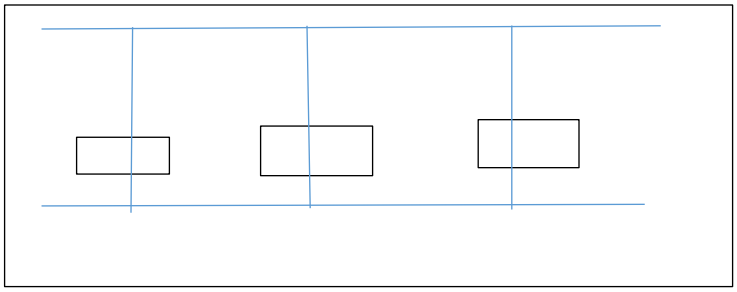
P=p1+p2+P3
P=v1.i2+v2.i2+v33.i3

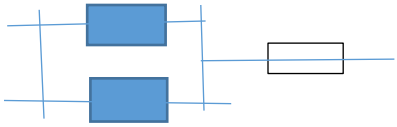
V1= V'O'2× cos (wt).i1=I'O'.cos (wt+j)
V2= V'O'2 cos(wt-2p/3)i2=IO2.cos(wt-2p/3+j)..
V3=VO.cos(wt-4p/3)i2= I'O'.cos(wt-4p/3+j)
-p1= V×.I×[cosj+cos(2wt+j)]
P2=V×.I×[cosj+cos(2wt+j4p/3))
P3= V×.i×[cosj+cos[2wt+j-8p/3))
- active power..
Cos (2wt+j)+cos (2wt+j-4p/3)+cos(2wt,+j-80/3)=0..
P=P=3.V.I cos j ..
Measure rotating power outage constant torque ,
P=3.v.i cos j = "0" $.U.I cos n ..
Q= 3.v.i sinj ..
S= 'o'O2+A#..
,,indicator by watmetter,,w1,w2,w3,,

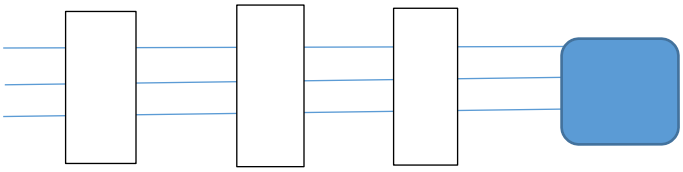
Assembly is valid
W1=< v1.i2>,,,w2= v#.i2...w 3= v3.i3..
W1+w2+w3,,=< v1.1+ v2.i2+ v3i3=

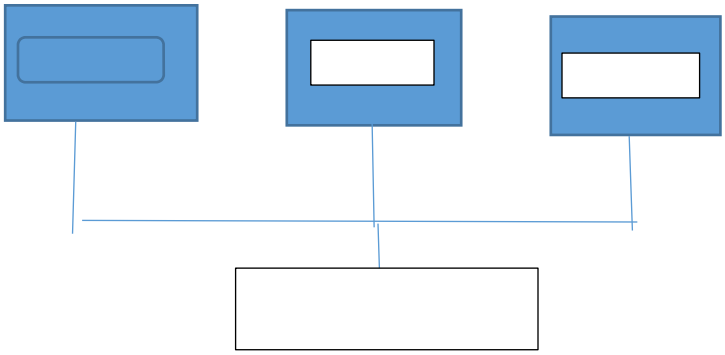
--
**Single ,- phase transformer .. presentation magnet field excitation vector denoted H create a v
magnet.equation ,Amper verification by H: rot H= j

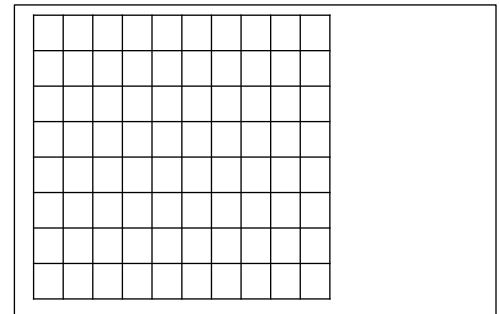


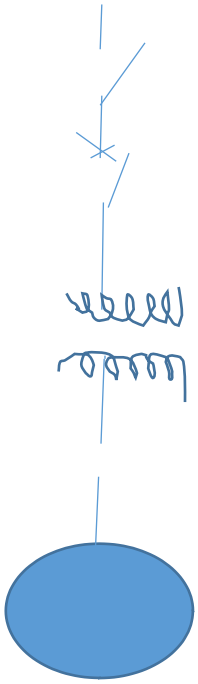




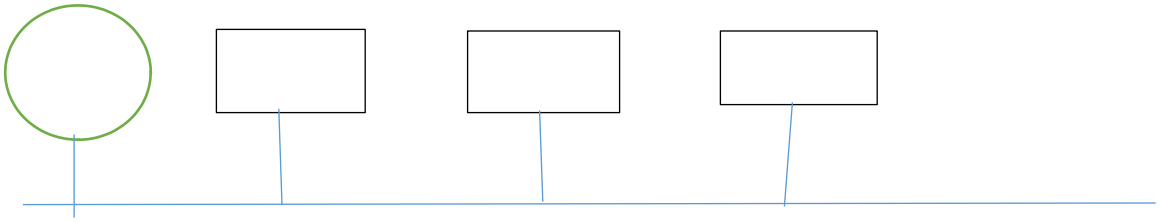








S10	S20	S30	S40	S50	S60	S70	S80	S90	OUTPUT0	REGISTER	COMPTE																



DATABA SE SO, ICT IT

INFORMATION MANANGEMENT SYSTEM /

OUTPUT/DATABSE

VS

DATA BASE , COLLECT

INFORMATION MANAGENT SYTEM IN

OUTPUT/DATABSE

VS

DATABSE INPUT, CRIME SOURCE , COLLECT

INFORMATION SYSTEM / POLICE , SAFETY , POLICY

OUTPUT/ DATABS

PROCESSOR SYSTEM

COMPUTER SYSTEM

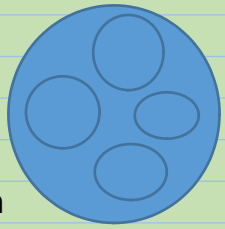
MANAGENT

MANAGEMENT SYSTEM

=

Experiemental orientation guide workbase Manuel construction guidelines:

- electrical engineering
Electrician
Design. ,,
Z×A×U= .
ΔU.2L××Pxz×Z×A



..**schema electrical / drawing design
 panel
_____&

Courent I1,I 2..
S= porter in cm ,a = distance in cm
P= U× I.[W].IP.U
P=U×I×cos .flux ..IP × U× cos alph
P= 3×I×I×cos [W] IP×3×U×cos flux
F2, 0,2×I@×2×s,a
=.....(N)
F3=0,808×F2[N]
F3=0,865×F2[N]
F3=0,865×F2[N]
-resistancd of conductor,L= ligth of conductor ,m aluminy,
- Z = conductivity, m /mm ion ,
A = across area conductor ,mm Sq..
- resistance = of coiling of induction condensator , L = inductance ,H ,f = frequency ,Hz ,
- series parallel installation ,
U=I×R[V].I.U..R=, R.I..ohmm × 33 m ,ohm m× 8,3 mm Sq × ohm
XL= 2×π×f×L, XC ,,2× π×f×c
{
=
ZR2(XL-XC)2=+ZR,,cos = --- ohm

RG, R1R2/R1+R2=..
R1R2×R×./ ..
Z..Z.@..Z2..=, X..X..

1***.4.1.2.5***1**..**Cable and conductor : value short circuit current ,,assignment current ,,
Transformation
- system design of cable conductor:
Cable PVC,0,75 mm , souple,H05V - K ,0,75 black ,,big cable coutchouc ,3 conductor = 2,
- protection , green yellow , symbol h ,supply voltage ,300/ 300v,03,,$00/500,450/750v
Material insulation cable : caoutchouc naturej styrene ,butadiene silicon material,PVC ,st

- construction specialist cable : meplat with conductor separe H,NHL ,,cable plastic gain ,
- characteristics of materials : polythylene ,elastic ,thermoplastic ,color ,grid degree Up ,

Fuse motor tree phase value rotor squire ,(DIN VDE 0636,,
Control thermic ,,start delta over load max start ,2 × assignt current , max 5 sec ,, regula
Switch ,switch gear ,,, close open circuit
Usage current ,
I = courent etablid ,IC = courent coupe,I e = courant assigned d employ ,u tension avan
60847-3(VDE 0660 partie switch for motor starting b,,power cut open close ,L/Rv,ms.

Letter and Laball switch USA ..
S ,switcy combination lock non lokkin, disconnect switch ,drum switch ,flow operated swi
switch ,locking switch,master switch, mushroom head,pressure or vacut,operated switch
switch single throw switch ,speed switch ,temperat actuated , time delay switch ,toggle s
,commutating field compensating ,generator ,motor separately excited ,series field ,shun
Connector,,
- Consol visual ,prodibus , can bopen ethernet commuyaty ,net pin 1, pin
Atex , installation

Command automatics

Installatt port ethernet ,port ethernet prise RJ45,led ,port com
Synopsis cabling system
Logigrame algorithm ,commutator.

1***.4.1.2.6.***Overview : research in training and .university and college ,cpd learning campagnie work base : experiemental.
Module ,construction distribution system design

- describe between fault current peak ,value ,RMS symmetrical value .RMS , asymmetric
I= symmetrical RMS current ,IP = peak current,e= 2,71,wv,= 2.p.f ..
Cycle (ANSI/IEEE.C37.13.2.2015..
-Design a distribution system.
-Developm of a system one - line ..imp, --_Standard drawing , additional d
rawing --schedule and specification
- power systems voltage ,
Voltage classified
- income service Volta,income consider
- type of system:
Power system analyse ,short current wave.
- fault current calculat, fault calculai for specifications,medium voltage ,breaker fault ,mo
Grounding ground fault ,
- typicK power systt generator and generator system ,generator short circuit ,caractt,ger
motor power factor correction ,
- typical applicatt ,health facilities ,quickly generator and load bank ,power quality,
- power quality seism ,ampacities for conductor ,NPA 70-2014,
- safety goal power hazard oashs , NEC
- regulation requ
& Maximum flexibility ,minimum
- maximizing electrical minimy operating : loss conductor transfory .
: discussed further ,
- development phase : input plumbing construction v.
- construcy documents : project ..

- bid .
- project award contractor db panejct.

- single primary feeder loop systeme, primary radial
- duplex fused : switch intelicy..- fused selector switch one .
- soaring transformer substay reijsce ..
System preliminary,factt .
- typical protective relay scheme for small generator , differential reisu .
..
- typical emergency power systems b: ..energy
- maintenance test,
Breakers calculat on a symmetrical current rating : fault calculation : on note interrupted
symmetrical .
- 13,8 kV ,,breakers x/R= 15, 375 MVA,transfo 13,8 kV primary ,3750kva , secondary ,4,
On system,13,8 kV system ,3,75 MVA base ,
Z=3.75MVA/375,,= 0,01 Pu or 1%

Z^2=X^2+RR^2=R^2(x^2/R^2+1)
R=Z/√x^2/R^2+1=1/√266=1/15.03=0,066%
X=X/R(R)=15(0,0066)=99%
Transformer standard standard ,5,5% impedance has ,+ 75 manufacture toleri,
Transformer standard ,5,5% impedance ..
From transformer loss per unit percent ,R is calcul .
31,000 watts full load
-6,800 watt no load load

_____
24,209 watt load losses
R= 24,2kw/3750 KVA = 0,0065 Pu or ,0,65%
- transform x = √ z^ 2-R^2.√(5.09)^2-(0,65)^2=√25.9 ^2-0,42=√25,48=5,05%

_____

	X.	R.	X/ R
13,8 kV system	0,98%.	0,066%.	15
Transfo.	5,05%.	0,65%.	8
Systt total.	0,04%.	0,76%.	8

.tree

For three phase ,i3 phase = E/x ,,
X ohm ..
I3 phase = IB/X,, IB is base ,,
- base current IB = 3,75MVA/√3(4,16Kv)=0,52k.A
I3 phase = I1/ x = 0,52 /0,0604=8,6k, sym ,,syst ,x/ R= 9 is less 15
Duty circuit ,is 8,6 ka three phase I and moment ..
8,6× 1,6 = 13,7 KA. I 3
- for line - to grounv fault ,
ILG = 3E/2x1+X0=4IB/2x1+xo ,xo is seauet reactance transformer positive ..
ILG= 3(0,52)/2+0,0604)+(0,0505=9,@KA sym ..
The ,50 vcp ,, applied,z= x ,in= x = 0,52/0,55=9,5ka stm ,
X/ R ration ,15 or less multiot ,10 for short circuit bdury ,short circuit duty is then 8,5 kA

_____
Design distributor system
drawing note / build..

_____

1***.4.1.2.5.***Fault calculation check break application or generator bus for the system gene
transient reactance ,x"d= 11% ,,or x = 0,x= pu ,

Gen ,x/R ratio ,30.

1/X's= 1/x+1/x+1/x== 3and 1/Rs= 1/R+;1/R+1/R=3/R..

X's= x/3and Rs ,= Rs=R/3,, system ,X's/Rs = x/R= gen .x/R=39,, generator neutral groun
l/x+1b/x+31b/x= 3(1,04)/0,1@=28,4 ka ,symetru,E/x Amper ,system ,x/R of I multiple b.

-Three phase symmetrical interri capacity

_____

Breaker type|vmax| max ki| at 4,16 op vo

1*.4.1.2.7.*Overview: trade theory base experiemental.

-basic electricity ,: continuing education professional development course ,

- technical learning college..

Training ,basic electricity course energy and system electricity , system fundamental ma

- electricity

-1. introduction: ,energy foundation ,joules ,

How to generated ,electrical transmission.

-2. simple forms of electricity : static electricity , magnetic and electricity , electromagne

-3.electrical princiy introduction : electric power distribution ,electronic introduction,elect

4.hydraulic analogy principle : hydraulic component equivalent hydraulic equation

Limited to hydraulic analogy .

- electrical low and theory :tangent ,gal ometer , understanding ,Faraday low ,maxset Fa

- classical mechanics , potential difference ,power resistance and current ,power ..

- circuit : coils and capacitor : parralke ,parallel ,resistance ,

- power phases : understanding single ,understand three phase ,phase converted ,AC po

- transformser : transfo efficiency trisgke delta ,polyphase ,3 phase edisub system conne

Electrical motor : motor lubrication, electrical motor introduction ,brushes, AC motor brea
motor ,torque ,stepper rotary ..

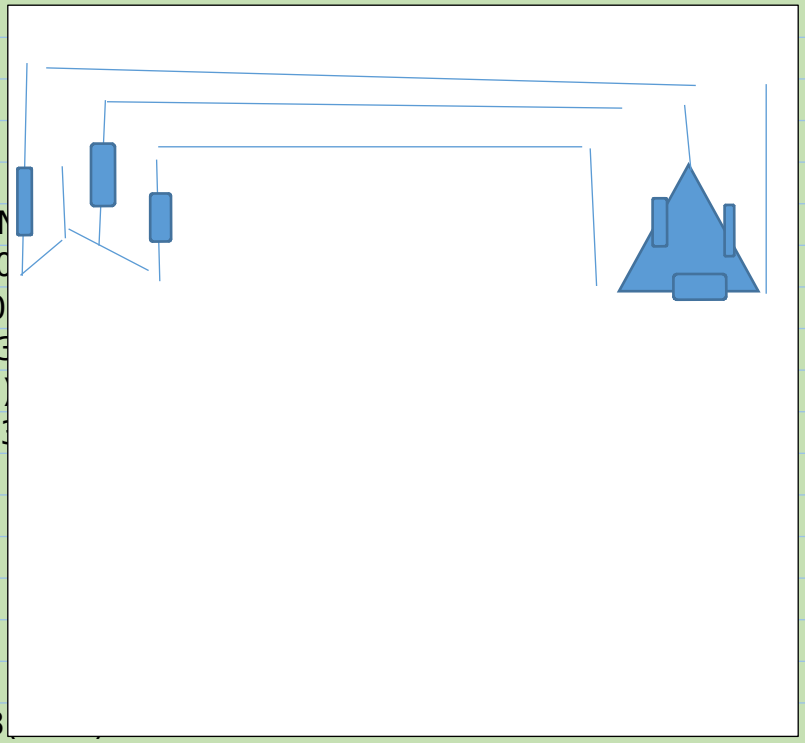
_____

Energy introduction : electricity principle charge act ,,

- an electric field a complex simple type electromagnetic field by and electric ,.
- the electrician ,generator devi

- type of transfo,air core for use ,above ,1mhz ,iron core use 100 khz - 1mhz,,iron core fo
secondary,auto transformer ,,set down ,,step up ,, ..primarie in series's for ,239 volt , kub

Wye introduction:



I1= v1/|Ztotal|<(- Teta)
I2=v2/|Ztotal <(-120-teta)
I3=V3/|ztoak|<(129°-0)
Z totaj total = zln + zy ,,z toaj ,,
I1+I2+I3=In=0
Delta = V12= V1-V2=(vln<0°)-(VL
=√3VLN<30°=π3v1<(phase v1+30
V23= v2-v3=(vln<-120°)-(vln<120
= √3VLN<-90°=√3v2<(phase v2+3
V3.1= v3-v@=(vln<120°)-(vln <0°)
= √ 3vln <150°=√3v3<(phasev3+3
.I12=V12/|ZΔ|<(30°-teta)
.I23=v23/|zΔ|<(-90°-teta)
I31=V31/|ZΔ|<(150°-teta)..
Relate ,si I31.
Kck ,node..
I1=I12-I31=I12-I12<120°
=√3.I 12 <(phase ,2 - 30°)= √3I13
- I 2 = √ 3.I 23 < (phase i23-39°)=√3.I.23<(-129°-teta)
I3= √3.I 3 < (phase i31-30°)=√3.I31<(120°-teta) ..

_____

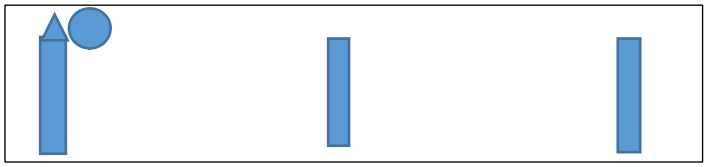
Connecting transfo
-vo= vt× np, ,,/ VT ,VT ,,vs = VT × NS.
N..
Vs/ vl = Ts/To =
Vs= vp× secondary turns/primary turns..

_____

-maxwell Faraday equation: z vector ,x vector ,y vector ,, n ,sum ,,integral differential su
- Maxwell Faraday equation ,-v×E= -derive partial .B/ derive partial times.
- v- the curl operator ,E(r,t) is electrical field ,and B (r,t) magnt field generally ,r and tim
- Maxwell Faraday ,four equation fundamental theory classic electromagnetic ,integral fo
Integral countiurn .E× DL= - integration .sum to ..derive partial B./derive partial time × d
Sum is a surface bounded by the closed contour ,sum derive partial ,,
- E is electric field ,B is the magnett field ,
- dk is an infinitesimal vector element of the cotyr ,derive partial ,sum .
- dA is an infinesimal vector element of surface ,sum if it's direction is othogky to the sur
* Hydraulic equation example.
- hydraulic.
Type | hydraulic| electric | thermal | mec
Qty | v/m cubs | q(c). |. Heat Q,j|p,s
Pot| P[Pay=j/m| V=j/c| k=j| v ,m/ s
Flus| m^3/s | A= C/s| A.j/s | force ,F.
Flux | v/ m | C/ m.s = A/ m | Q" ,W/ m
Lin. | π.r.Δp/8.n.l| j=- - .| Q" = k.vt..
Linea model ,poseilk low ,ohm ,,

_____
Understanding voltage introduction:
Δ vba= vb-va= - integral (b) to (do) E vect× DL .vect -(- integral .A to do ,E.dl ..
= Integrally .B to ri ..E .DL + integral.a to ri .
Vec E.dl = integral .A to B .E .vect .DL vect

2.1.38,, 2. Projec13. * Winding on rewinding transformers and machines both DC and the types of machine ,and the desired ,
13.1.* Understanding the types of machines .* DC machines these include DC motor a windings.
- AC machine : these include ,AC motor ,like induction synchronous motor and transformse
-2 key parameters for windings.
a winfmding specifications;
1. Number of turns (N) the number of turns in the winding affect the voltage and current chara
2. Wire gauge : the thickness of the wire affect the resistance and current carrying capacity.
3.* Winding configuration Serie parallels combination depending machine type calculating wing
* For DC machine .
1.calculate the number turns the number of turns can be calculated based on the desired magn
Phi\cdot\cdotZ}
-_____



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2. Wire gauge : the thickness of the wire affect the resistance and current carrying capac

3.* Winding configuration Serie parallels combination depending machine type calculatin

* For DC machine .

1.calculate the number turns the number of turns can be calculated based on the desire
Phi\cdot\cdotZ}

-_____

- to calculate aspect related to telephonic cellular telecommunication supply .

- understanding cellular telecommunication supplies cellular telecommunication supply
communication .

* Base station : equipment that connect mobile devices to the network's.

* Backhaul the connection between base station and the core networks.

* Core network the central par of the telecommunication network that manage data and

,##2* key calculation.

a* coverage area calculation the coverage ,area of cellular tower can estimate using the

-\(A\)=coverage area (in square kilometres)

-\(r)=radius of coverage (in kilometres)

Example : if a tower has a coverage radius of ,5 km

\[A=\pi(5^2)\ approx ,,78.54\ text { km } ^2\].

b. Capacity calculation: the capacity of cellular network calculated based on the number
[c=\frac{(A^B).}.{B.} \ big / sum ..

_____

* To calculate the component of a cellular telephone system and derive relevant integral

1. Components of a cellular telephone system ,

A: cellular telephone system typicay consist of the components.

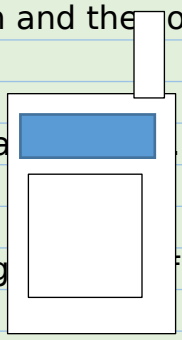
* Mobile station (ms) * the users device ,smart phone tower that communication with m

* Mobile switching centre ,MSC , manages the communication base station and the ore

* Core network,handles data routing billing and other ,

,2 calculating key metrics.

a.coverage ,Area calculation the coverage area of a base station be estima



\[A=\pir^2\]

-where .\(A\)= coverage area in square kilometres .

.\(r\)= radius of coverage in kilometres ,ex : if a base station has a coverag ,3

\ [A=\ pi (3^2)\ approx ,28.27\,\text ,{km} ^2\]

.b capacity calculation.

_____

To calculate the spatial transmission characteristics of a system particularly in telecomn

##/ understanding spatial: transmission, spatial transmission refer to how signal private
obstacle ,and the environment.

* Free space path loss (fspl) the loss of signal strength ast travel through free space.

* Multiple path propagation the phenomenon where sign effect : the change in frequency

2 calculating free space path loss (fspl) the free space path loss can be calculated using

\ [text \ text { fspl } = 20\ log - { ,10}{d} 20 log { 10}(f)+32,44\] where : \ d = distance

signal ,in megahertz ,example calculation ,if the distance ,\ d (d) is ,10 Kim and the freq

---

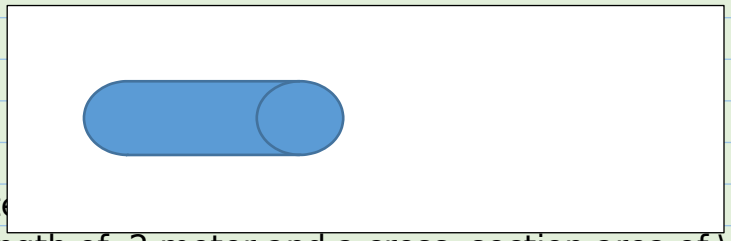
To calculate the properties of material used and conductor insulator and magnetic mater

1. Conductor : are material resistance common conductor..

- resistivity calculation the resistivity,

(\(\ rho}) of conductor is a measure of now strongly it resist the flow of electric current th

(\(R)) Of conductor can ,



}[R=\ rho \ frac { L}{A}\]

.\(R\)= resistance,(ohms) .

.(\rho)= Resistivity (ohm metre)

.(Li)= Length of the conductors meter

./ (A\)= Cross - sectional area ,saaremete

Ex . Calculation for copper wire with a length of ,2 meter and a cross ,section area of \+|\

(Which is / (i\ times ,10 ^{ - 6} , m ^\)) And using the resistivity of copper (\+\ rho \ ap

R= 1.68 } times , 10^

To calculate the size of a winding for stepper motor .

1. Understanding stepper motors.

- a stepper motor is a types of DC motor that decides a full rotation into a number of equ

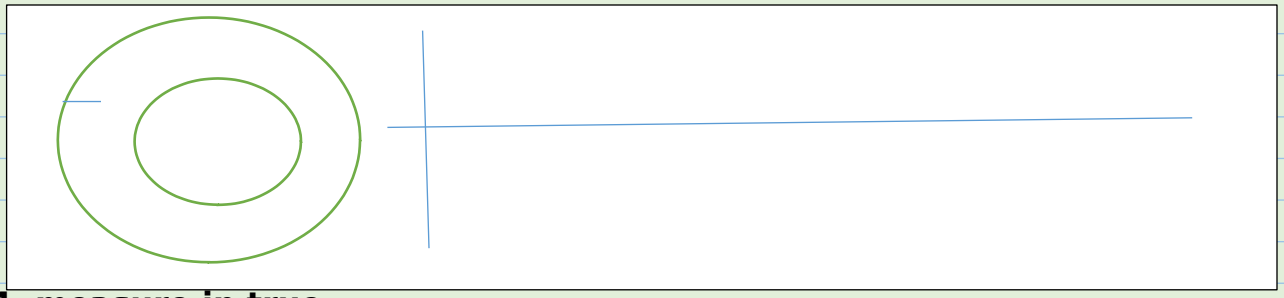
* Number of phase : most stepper motor are either ,2 phase ,5 phase..

* Number of steps per revolution ,common value are ,200 steps ,(1.8 degree per step or

* Windt configuration the arrangement winding unipolar wire gauge : the thickness of wi

3. Calculating the size of the winding : determine the number of turns s , the number of t

[N= \ frac { v} { L csoti }\ ]



-**14. measure in true.**

***1 types of measure errors measure : systematic these are considering repeata**

*Random error unpredictable and can vary from one measure.

- gross errors : the are large errors that occure to human .

* Calibration of instruments ,calibrat is the process of adjusting instrument to ensure its

1. Select a standard: use a reference standard.

2. Measure with the instrument take measures using the instrument.

3. Compare measurements , compare the instruments .

4. Calculate errors the errors can \[text { text error }= text { measured values \ text { tr
5. Adjust the instrument if system error are found
- to perform conversion between binary hexadec
Conversion between number systeme.
* To convert a binary number to decimal ,use the formuler , \ [\ text { Decima} = sun -{
the position of the difit from the rigth starting at 0 convert ,\ (1011_21) to decimal \ [=
2^1+1\ colot ,2^O= 8+0+2+1=11_{10}\]
-decimal to binary : to convert a decimal number to binary divide the number by ,2 and r
until the Quotient is ,On
Exp : convert \ (1@-{10}\) to binary .
\ [11\div ,2=5\ qual\ text { remainder ,r= \\ ,5 \ div ,2=2\
-to calculate the size of a memory accumulator in a binary system.
1) understanding binary representation:
In a binary system ,data is represented using bits ,binary digital where bit can either 00
2. Memory size calculation : the size a memory accumulator based number of bit it the to
\ [text { number of values } = 2^n\]
Where . \(n\)= numbers of bits.
* Example calculation: determine the size of the accumulation.
2) calculate the number of value ,\[\ text { number of values }= 2^ 8 = 256\]
This mean the accumulator can hold values from \ (01) to (255\)(decimal ,### memory
of the accumulator in bytes is \ [text , { sizer

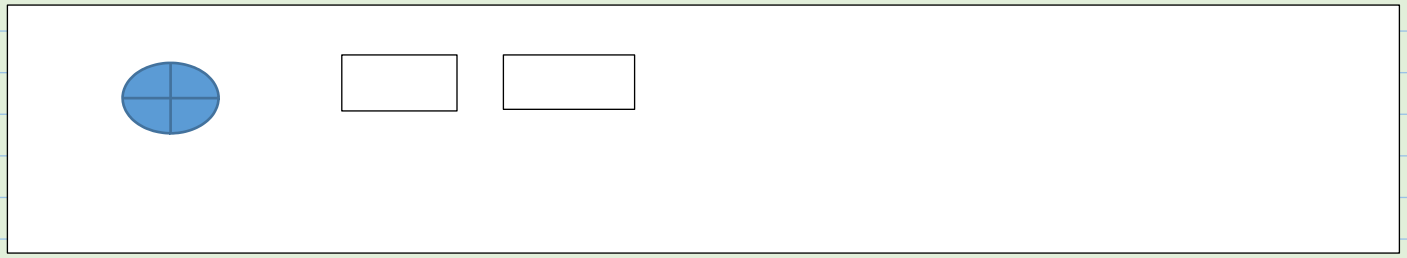
To calculate thevenin , equivalent of a network ,short circuit current and voltage value ,
1. Thevenin theorem.
* Overview: thevenin theorem state that any linear Electrical net with voltage source and
voltage source (1(V-{the}\)) in series with with a single resistor (\ (R-{ the}\)).
2. Step to find the in equivalent.
a identify the portion of the circuit select the portion the circuit for which
b calculate thevening voltage (\(V - (the }\))
1.open - circuit voltage, calculate the voltage across the terminal where the load was co
-2 method : you voltage division nodal analysing
- calculate thevenin resistance (\(R-{the}\))
- deactivated all independent source : replace independent field.
- to calculate amplification in circuits involving diodes transmission diode transistor ,and
diode amplification diode are typically not used for amplification in the Sens performan
current calculation.
\[I-D= L.S \ left (e^{\ frac { V-D}{ NV - T}} -1 rigth .
. \(1-D\)= diode current (A).
.\(I-S\)= reverse saturation current.
. \(V-D\)= voltage across the diode ,V
.\(n\) = ideality factor (typical between ,1 and ,2

. \ (V-T\)= thermal voltage (\approx 26\ MV) at room .
2. Transistor application transistor can use common collector thermostat common ,is cor
1. Voltage gain (\ (A-C\))\[A-V=

_____

To analyse and calculate parameter in a control system we typically focus on aspect such
''''''''
____

2. Basic concepts in controle systeme.
* Open - loop control system : systeme that does not use feedback to determine if it's ou
* Closed loop control system systeme that uses feedback to compare the actual output t
,2 transfer function
The transfer function.
The transfer function \(H(S)\) of a control system relates the output (V(s)\<) to the input
3. Stability analysis , to determine the stability of a control system we can use the charac
is obtained by setting the denominator of the transfer function to zero
- for a transfer functions , ,\[H(S)=\ frac {k}{S^2+3S+2}\]
The characteristics equation is .
\[S^2+3s+2=0\] to find the root we can use ,
S=\ frac {-b\ pm \ start ,{ b^ 2-4ac}}{2a}



1. DC machines : speed (n) the speed of DC motor can be calculated using formula \[N=
- where \ (N\ ) = speed in Rpm (revolution perminute .
- \ (N\)= supply voltage (v) ,
-\(i\)= armature current (A)
\ (R\)= armature resistance ,(ohm .
\(K\)= a constant that depends on .
.\(\ Phi\) = flux per pole ,(WB)
b ,torque ,(T) ,the torque procedure
T= k \ CDOT } phi \ CDOT \] ,
Where .
.\(T\)= torque ,(N.m)
\(k\)= A constant that depends .
\(phi\)= flux per pole WB .
\(|\)= armature current .

_____

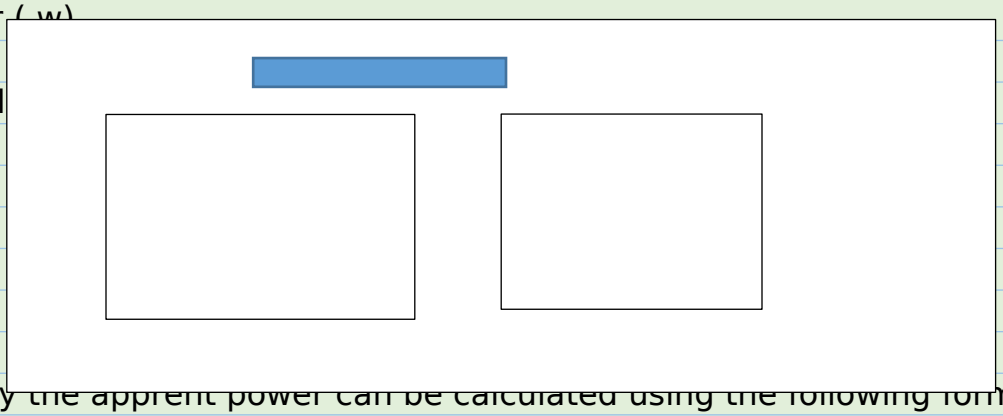
To calculate de gradient of a function and derive the integral of a Senegal,

1. Calculating the gradient of a function
The gradient of a function \(f(x,y)\) is a vector that contains all of its partial derivatives f
\[\ nabka , f=\ ,left(\fract { \ partial f) {\ partial x } , \ frac \ partial f }\ partial y \ right.
f(x,y) = x^2+x^2\]
.step ,1 calculate the partial derivatives.
.\(\ frac {\ partial f}{ \ partial x }=2x \)
.\(\ frac {\ partial f }{\ partial y}= 2y , I)
. Step 2: write the gradient \[\nabla ,f =2x,2y)\]
2. Deriving the integral of a signal ,we typically,use the fundamental theorem of calcul
Is given by : \[\ into$a^ b f(f) \,dt\]
-___
To calculate derivation ,both partial total double ,triple, relate ,to signal detection.
1. Partial derivatives : partial derivatives are used dealing with functionalite of multiple v
\(f(x,y)\) the partial derivatives with respect to \(x\)
Is denoted as \(\ frac{\ partial f }{ partial x}\) and with ,
Respect to \ (y\) as \(\ frac {\ partial f }{\ partial ,y }\)
Examp : \[funct \[f(x,y)=x^2y+3xy^3\]
* Calculate partial derivatives .\(\ frac \ partial f){ partial ,x }= 2xy+3y^2\)
.\(\ fract \ partial ,f }{ partial y }{= x^2+6x6xy\)
* Total derivatives : the total derivatives account how a functionalite change with respec
\(f(x,y)\), the total derivatives \ (DF \) is given by : \[DF = \ frac { \ partial f }{\ partial x
Using the previous : \ [DF = 2xy+ 2y^2)

_____
- to calculate the Laplace and Fourier series Fourier a random vibrational signal ,signal al
1. Fourier series : the Fourier series and cosine function for periodic function \ (ft)\) with
f(t)= a 0+\ sum ${n= 1}{\ infty}
\ left + a_ n \ cos \ left \ left + } frac { 2\ pi not }{T}
\ right) + b _ n \ sunleft (\ track { 2\2 Pu ,not { T}\, \ rigth \ rigth)\]
- pratical exercise related to electrical engineering
Exercises calculate the total resistance in a circuit problem statement have ,3 resistance
Resistor ,R1= 100 ohm resistor ,R2= 20 ohm , resistor ,R3= 309 ohm
Formula for total resistance.
.\[R-{\ text t{ total }}= R1+R2+R3\]
. Substituting the values \[R - { \ text { total }}= 10\.\ text , { ohms }+ 20\, text{ ohms
{ ohm }\]

- to calculate the supply trade theoty impedance and resonance in a electrical circuit ,we
resonance.
1. Impedance ,Z in a RLC circuit the total impedance is combination of resistance ,(R) in
impedance in a series RLC ,circuit is
[Z =\ sqrt{R^ 2+(x-L-X_C)^2}\]
Where _\(x_L= 2\ pi f L \ Pi .f.c\} (capacitive reactance ,

-\(X_C)=\ frac ,{1}{2\ pi.f.c}\}(capacitive reactance.
-|(fI) is the frequency in Hertz (z)
-\(L/) is the inductance in Hertz (Hz) ,
| (L /) Is the inductance in Henry(h)
-\(cl) is the capacitance in farad (f)
2* resonance occurred in an RLC circuit when the inductive reactance equals the capacit
and the formulation for resonance frequency form resonance frequency (\ (f - I)) is \
To the calculate the fundamental system electric power factor we need to understand re
how to define.
1 .real power ,P owner reactive power and apparent power in electrical how to to definiti
2) reactive power ,q the power the oscillator between the source and the load measured
3 ,apparent power ,s the total power in the circuit , measure volt ampere ,Va is the comb
- power factor calculation:
The power factor ,of is defined as the ratio of real power to apparent power , \ [\ text po
Where : .\(P\)= real power (w)
.\(S\\)= apparent power ,(
apparent power calcul



apparent power calculay the apprent power can be calculated using the following form
\[S=\sqt{P^2+Q^2}\]
.value .real power (\(P\))=500w,
.reactive power(\Q\))=300VAR
- calculate apparent power (s)\[,S=\sqt{P^2t
- to calculate the characteristics of AC and DC machine we typically look at paramt such
Characteristics for both type machines .
-where .
|(a-O=| frac {1}{T} int- 0^ f(t)\dt)
.\+a-n = frac {2}{T} int_O^Y f (t) \ cos\ left (\ frac { 2\ Pi .n t}{ t } rigth \, DT have sim

---

- to calculate the transformation and conservation of signal in the context of electrical sig
1 .signal transformation Fourier transform.
- the Fourier transform is used to convert a time domain signal into it frequency domain
e^{- j \ omega }\ dt\]
- where . \(f+ \ omega)\) = Fourier transform of the signal.
.\(f(t)\= time - domain signal .
.\ (\ omega \) = angular frequency in Radia per second ..\ (j\) = imaginary unit .

BB* Laplace transform

- the la place trans is another transformation used to analyse linear time _ invariant syst

-{O} infty } , f(t) ,, e{-st } St \]

- \(f(s)\)= Laplace transform of the signal .

- \ f(ft c)I)= time domain signal.

_____

- to calculate and understand synchroun and synchronous system, particularly in context

1. Synchronous systems.

- in a coordinated, governed a common clock signal , in electrical synchronise system are

- example : lineare system the state space representatation .

\|[| dot { x}(t}=Ax(t)+By(t)\]\[y(t)=(x(t)+du(t)\]

Where :

-|(x(t)\)= state vector

.|(u(t)\)= Input vector

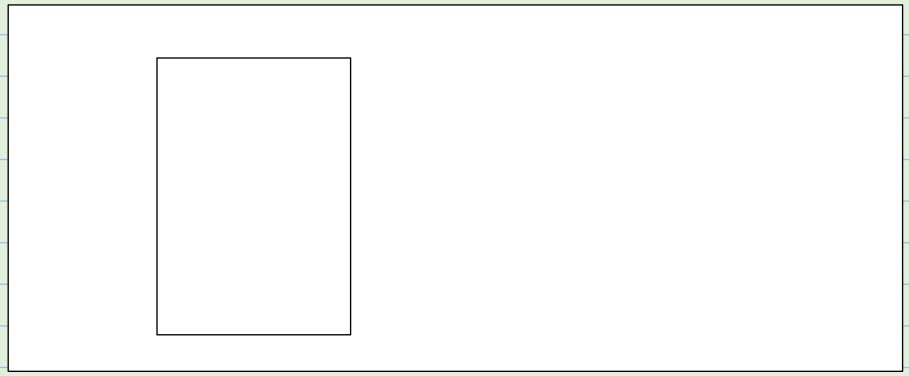
.\ (y(t) \)= output vector .

.(A\)= System .

.\(B\)= input matrix .

.|(C\) = Output matrix .

.\(D \ ) = feed forward.



_____

2.asynchronous system as asynchronous system operate without a global click signal op

types of digital circuit and communication system .

- example equation for an asynchronous ,for an asynchronous linear systems the state sp

|[| Dot { x} (t}= Ax (t) + B(t) \ ]\[y(t).

_____&

To calculate the integral of an amplified signal , detection of a signal and the probability

Integral of plidie signal

If you have a signal \ f(t)\) that is amplified by a constant factor \(A\) the amplifier signal

time interval \[a,b])\[\ int_ a^baf(t)\, St = A\ into _ a^ b ,f (t) \ St

Exampt say \ f(t) = t ^ 2\) and \(A= 2\) we want to calculate the integral from \ (0\) to \

\[\ into _0^/2t^\, St = 2\ in_ 0^ t^2\,dt\]

Calculating the integral

\[into 0^1t 2^2\,St=\ left[\ fract { t^3}{3}\ rigth]-0^1=\

Frac {1^3}{3}_\ frac { 0^ 3}{3}=\ frac { 1}{3}\}

Thus \[\ into _ 0^ 1 ,2 T ^ 2\,dr..

_____

To calculate or design a program for artificial intelligence ,AL within an operational fram

Program

- 1 define the operational framework : an operational framework for an all program typic

* Objective : clearly defined the purpose of the Al program classification predict optimisa

* Data source : identify the data source requirements for training and testing the Al mod

* Algorithm : choose the appropriate Al algorithm based on the problem type ,supervised
1. Data collection and preprot
Data collection gather data from identified source this could involve wab departing using
* Data cleaning : remove duplicate handle missing value and correct inconsistent in the d
* Feature ent : select and transfy relevant feat that will be used in the modej .
3* model development.
* Select model choose the AI model based on the problem type for .
- for classification decision tree random ,forest ,support vector ,machine ,neural networks
-* for regression linear regression polynomial regression neural networks .
- training train model using the data set .
- to calculate a physical chemical plant balance we typically use the principles of mass an
of material and energy systems.structure approach to performing a mass balance physic
2 define system : identify the boundaries of the system your are analizing this could be n
3. Identify input and output : list all the input and output system ,input can include raw m

-

14*. Mass balance equation : the general mass balance equation can expressed as :
\[\ text { input }-\ text { output }+\ { generation } \ text consumption}=\ text { accumu
- for a steady state process (where accumulation is zero the equation simplified to \[\ tex
4.example calculation consider a simple chemical reactions input : A= 100kg / h , B =50
.product..

_____

14.1 to calculate the derivative and integral related an electromechanical systems we ty
describes the dynamic of the system structure approach to derive the master equation a
14.1. master derivatives : electrical derivatives for a simple electrical circuit with an indu
by : \ [V-L { L\ frac {Di}{St}\]
Where \(v-L)= voltage accross the inductor.
.\(|\){ current through the inductor .
- b mechanical derivatives:for a mechanical system the relationship between torque \ (\t
\ you = |/ frac { d\ omega }{ St}\]
- where .\ (\ tau\) = torque.
\ (\\)= moment of inertia
\(\ omega \ ) = angular velocity master

____

14.2 definition: isostatic system a system that hasjus enough support to maintain equilib

- hyperstatic for equilibrium leading to redundancy in constraint.

* Stability : refers to the ability of a system to return to its original state after disturbanc

* Stability analysis: for stability analysis ,we typically use method.

Eingenvalue analysis for a system represented by a matrix the eingenvalue can indicate
lyapunov ,(function \(V(x)\) , such that \(V(X)>0\) and ,,\(\dot{(V)(X)<O\) for stability.

14.4 transformation to linear system to transform a hyperstatic system into a linear syst

_____

14.6 creating a programme for a artificial intelligence ,AI , system that focuses on operat
object design the architecture implementation . Algor designed the architecture impleme

- 1 define objective

- purpose : the AI system should monitoring analyse and Optimizer electric metering ope

14.7.

Key features:.

- real time data collection from electric meter .

- data analysis for consumption patterns.

- anomaly detection for identifying irregularity.

- predictive maintenance for meter reporting and visualisation of data.

_____

14.8. system architecture:.data source electric meter and sensor ,Day ,SQL no sQL) to s

* Processing layer , implement data processing and analysis using AI algorithm.

* User interface development a dashboard for user to visualisation data and insights.

* Data collection / use API ,,direct connection to gather data from electric meters,exampl

* Python,import request,def ,collect meter dentK meter data storage.

- r esponse request get ,(f" http:// API electricity meter comparable ,/ { meter _ I'd "} re

_____

14.9.Creating on expert system for network involved several steps . < Including defining
is a structure approach to developing.

-* define objective :

Purpose .the expert system shouand ld assist in network management troubleshooting a

* Key features: network monitoring and performance analysis troubleshooting and diagn

- recommendations for network configuration.

User friendly interface for networking administratir.

2. System architecture , knowledge base a repository of network knowledge including ru
derive,user interface

- implementation step : knowledge base developm.protocols configuration common issue

-plain text .

If network _speed < threshold

Then
If packet _ loss >
Acceptable _ level then
Recommended _ check _ hardware.
- inference Engine implement the inference Engine to process user queries and apply the
Ex code snippet , python.
Python
Class expert system
Def _ initi_ self
Self . knowledge base
- to analyse a pneumatic hydraulic vibratory system equation governing the system and
1. Understanding the system ,A pneumatic - hydraulic
Vibrator system typically consist of
* Pneumatic components : air driven actuator or cylinder.
* Hydraulic components : fluid driven actuator or cycle

to
16.hydraulic components:fluid driver actuator or cylinder .
* Vibratory mechanism , A system that produces oscillator or vibration, oft used in applic
2 . deriving equation for a pneumatic hydraulic system the dynamic described using New
_1 force balance the net force acting on the system,express as \F-{\text { net }}=F-{\ te
F-{\text { hydraulic }}- , F {\ text { damping }}-F{\ text (inertial }}
2.* Pneumatic force .the force generated by a pneumatic actuator.

_____
To derive the relationship force ,motion. ,power ,energy .
\[F= m\ CDOT a \ ] where.
.\(F\) = force (N) , | \ (m \)= mass (kg) |\(a)= acceleration ,(m/s.s)
* Work done by a force : work (\(w\) is defined as the force applied to an object time dist
Is applied in the direction force .
|[W= F \ CDOT d \ CDOT \ cos(\thita \]
.\(w\)= work ,joule
.\(f\)= force ,N
.(d\)= Distance,m
.\(\ theta \ ) = angle between .

,3 energy :

Kinetic energy ,(k.E) is the energy of an object du it's motion .
\[K.E= \frac {I}{2}.m.V^2\..
Where .
\(V\)= velocity (m/s)..to analizing the concept of magnetic electromagnet and electrodyn

_____

- understanding the concept.
- solenoid ,a coil of wire generate a magnetic field an electrical current pass through it.
* Magnetic moment ,A measure of the strength and director of a magnetic source
* Electromagnetic induction , a measure of the strength and direction of a magnetic sour
* Electromagnetic.iduction .the process by changing magnetic.field induce and electromo
* Electocinectic ; refer to the motion of charged | particle a fluid under the inference of a
-the magnetic moment (\(m\)) of a solenoid, \[m=n\cdot \cdot A \]
Where . \+Cn\)= number of turns per unit length ,turns / m
\(\)= current throughout the solenoid ,A
\(A\) = cross - sectional area of the solenoid,mm. Electromagnetic induction
- according to Faraday los electromagnetic the induce

_____

16.3.The term Quotient intellectual calculus is term in mathematics or intellectual ass.
- intellectual Quotient ,(iQ) ,the ,IQ is a measure of a personal intellectual abilities in rela
- IQ \[\ text {IA}=\ left (\ frac { text { mental age }}{\ text { chronological age }}\ rigth

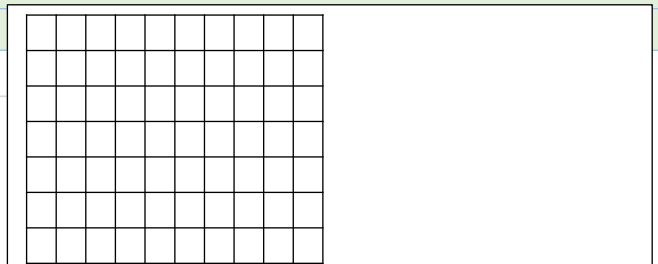
- mental age : the age level at which a person perform intellectual.
- chronological age : the actual >
2.Quotient in calculus.
If you have two function \ (f(x) and \(g(x)\).the quotient \ [A(X)=\ frac {f(x){g(x)}
3.calxukating the derivative of a quotient , [fract = d}{dx{\ left (\ fract { f (x) }{g(x)\ r

_____

- to analyse psychometric variance ,variance in electrical psychometric field of study co
attides and personality traits in this psychometric test analysed staatiscally ..
2. Calculating variance is statistics measure that represent the degree of spread in set o
^2\)) of a set of values \(x_1,x_2\ isots ,x_n\) is calculated using formula
€[| sigma ^2= \ frac { 1}{n}\ sum _ {I=1}^{x_i_\ mu)^2\]
- \(\ sigma ^ 2\)= variance
.(X_1\) = Each inductive . observations
- formulation

_____

In electrical engineering under is crucial for analyse data especially.
1) variance : measure how a set of value differ from the mean of set it quantite the sprea
-for a set of \(n\) observt it quantt the spread of the data .
Point formula for variance.



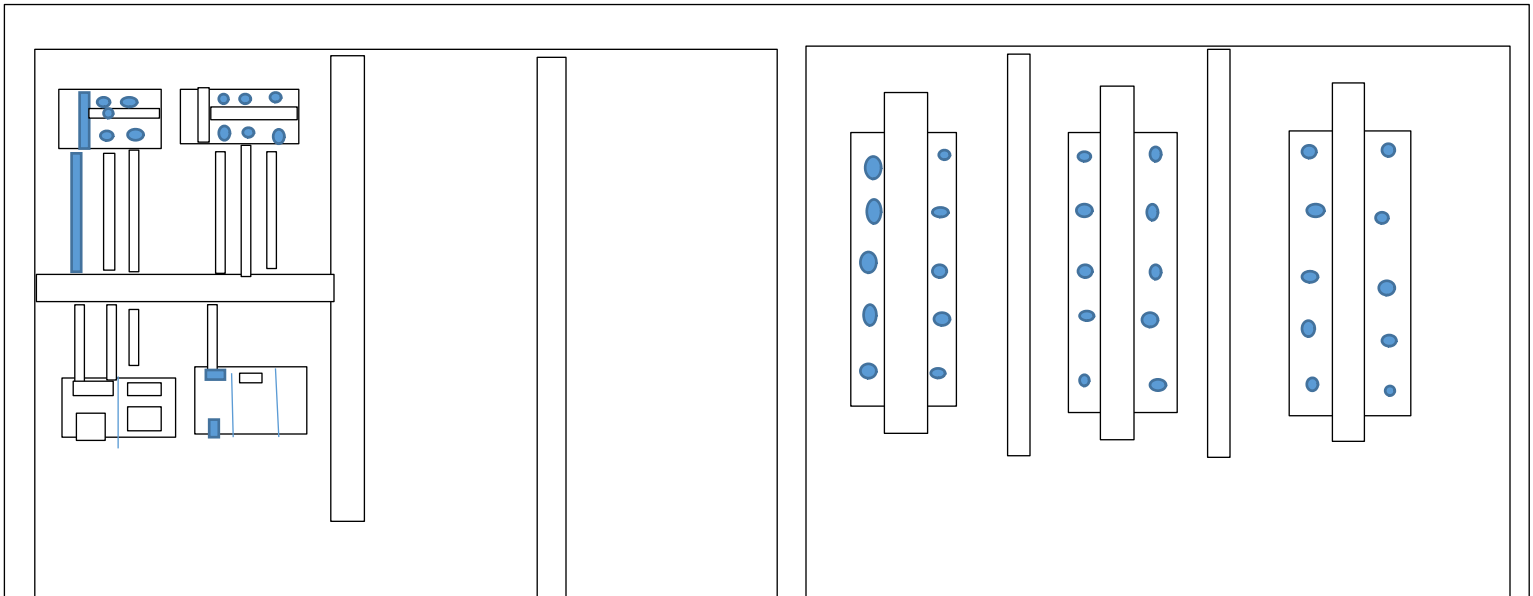
For a set of \(n\) observations \(x_1,x_2,\ isots ,x_ n \)
|[| Sigma ^2=\ frac {1}{n} sum_
{I=1}^{n}(x_1-\mu)^2
Where.\(\ sigma ^ 2))= variance.
.\(n\)= number of observations .
.\(xi)= each individual observation .
.\(| mu\)= mean of thicd ..
---\[|my= \ frac {1}{n} sum _ { I= 1}{n}, x _1\]

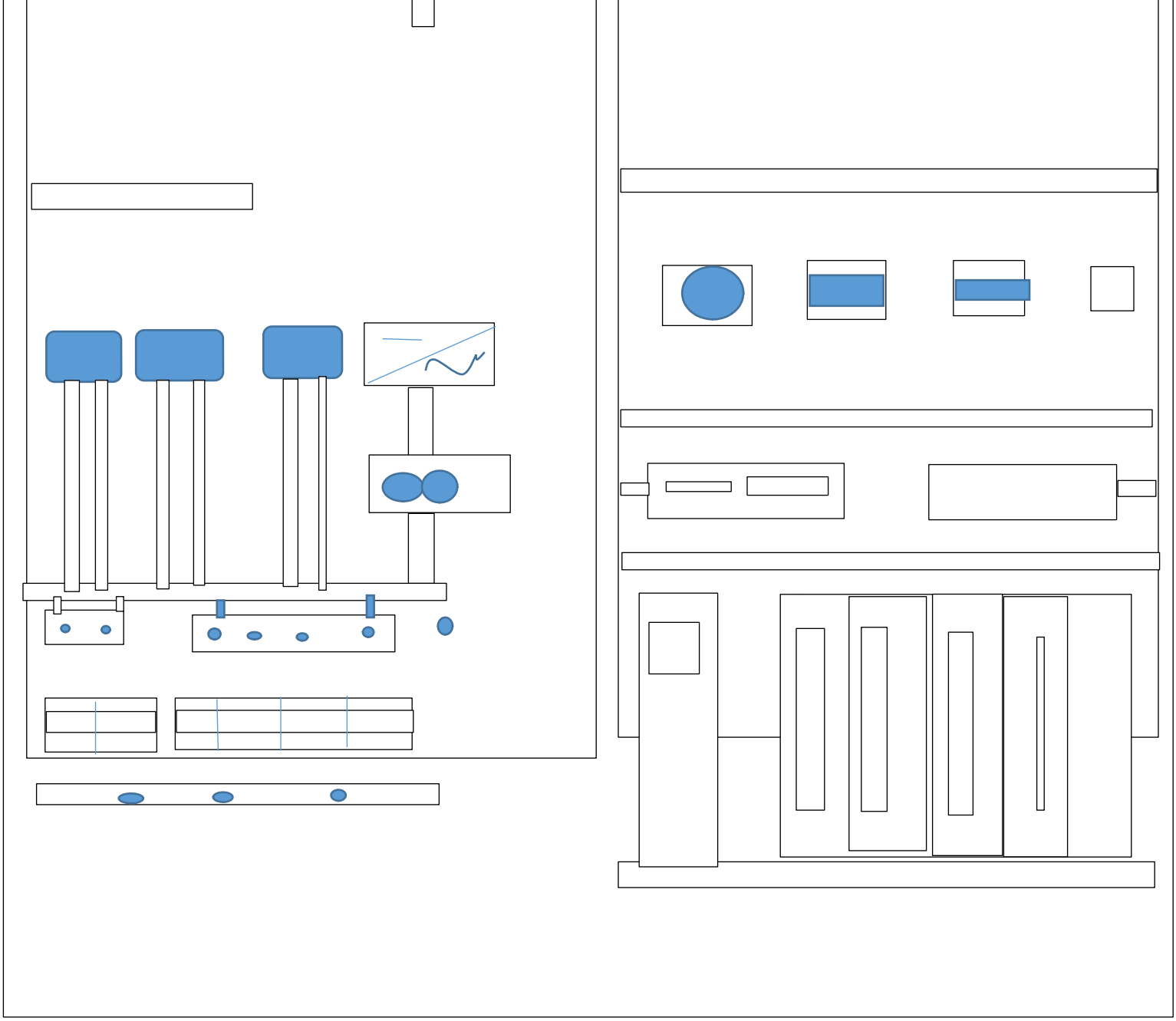
_____

2.covariance measure the degree to which two the degree to which two random variable
variable : { foetus set of observations \ (x=(x_1,x-2\dot ,x_ n)\) and \ + y= (y-@,y-2,\ ido

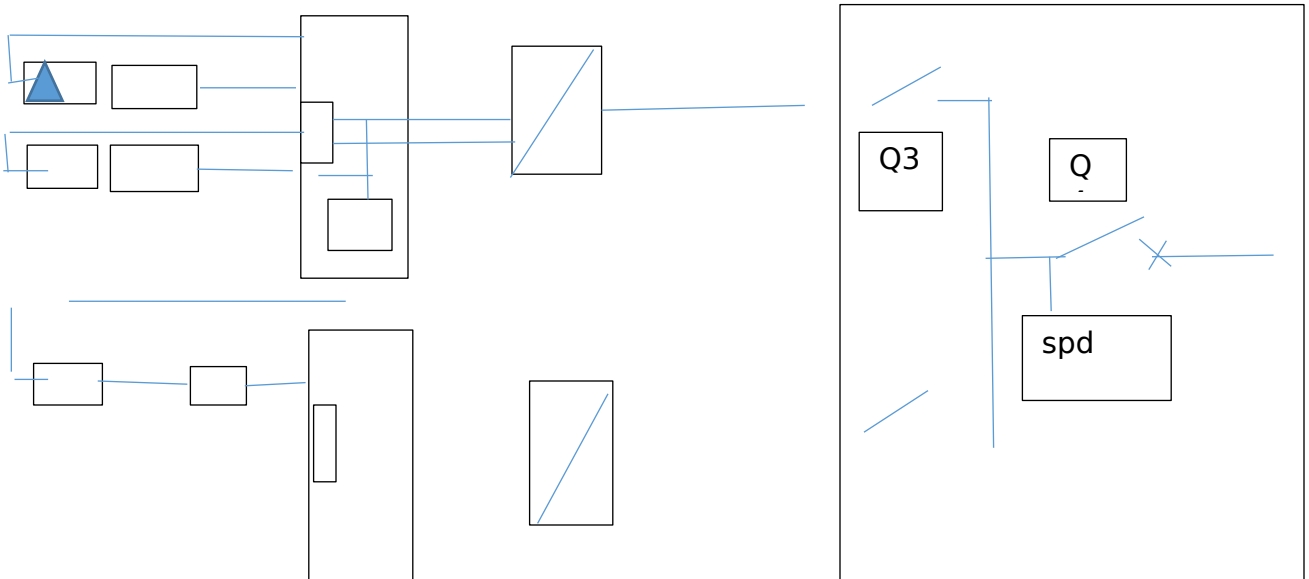
3. Calcul the electrical installation requirements for a building term .
- understanding power and energy .
* Power ,O * measure in kilowatt (kW) it represent the rate at which electrical energy is
* Energy ,(E) : measured in kilowatt hour ,kWh it represents.
.\[E= O\ times \ ]
.\(E\)= energy in kWh
.\(P\)= power in kW
.\(t\) = time in hours .
- 2 calculating total power demand to calculate the total power for a building.

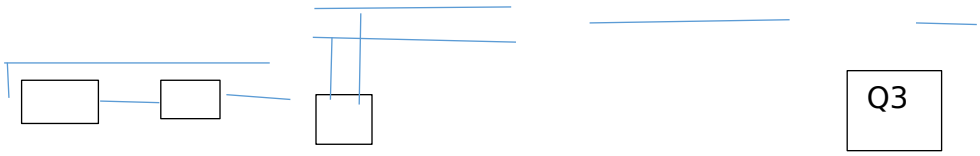
- list of electrical load ligthning ,10 fixtures a ,15 watt each ,HVAC : 3 kW , appliances ,2
2 calculate total power demand ligthning \(10\ text{ fixtures \ times

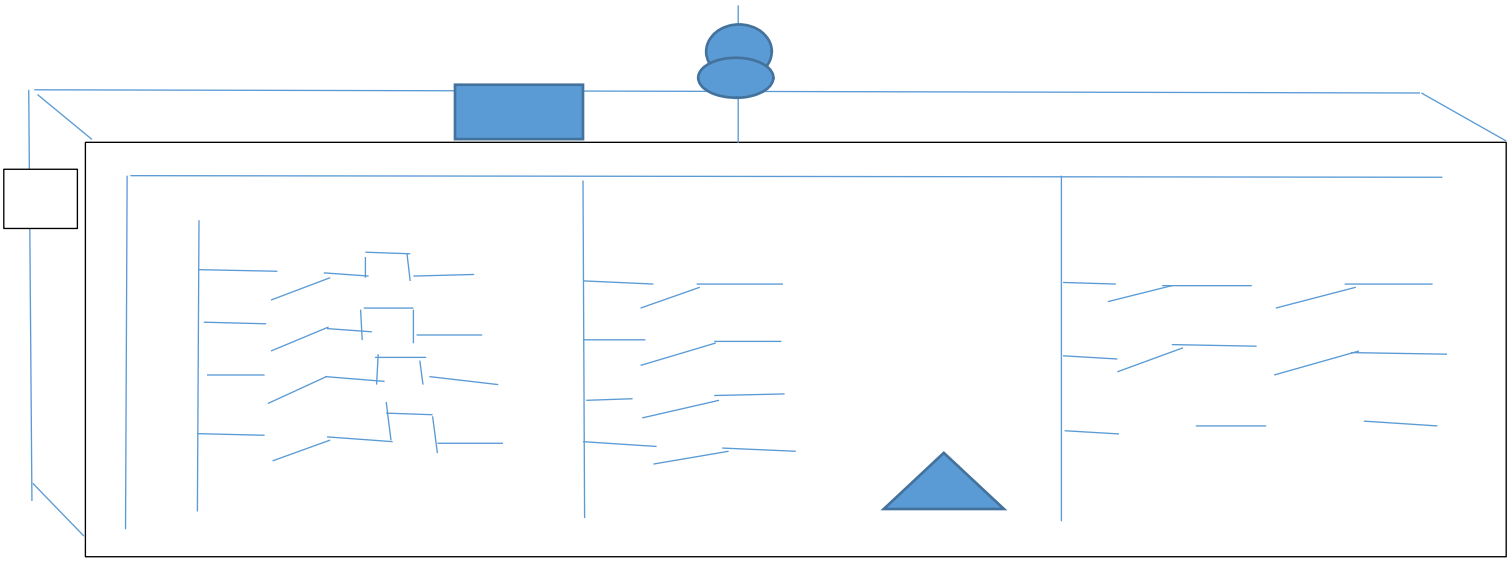


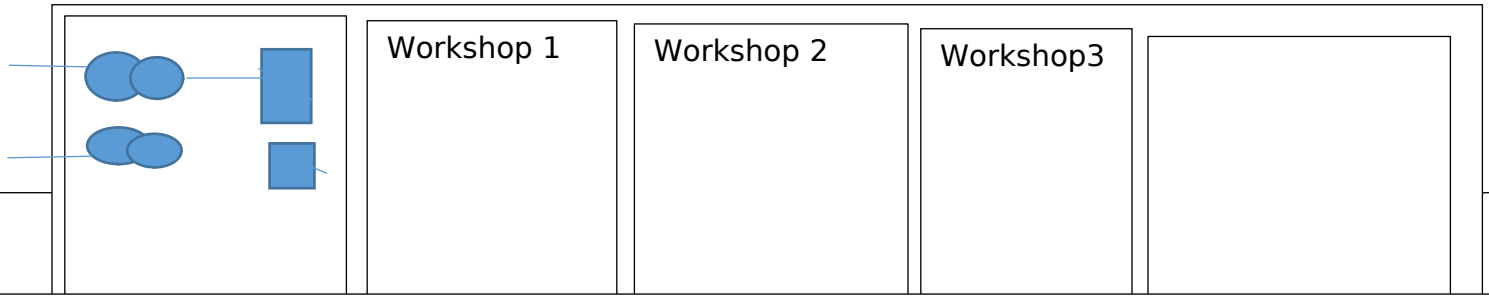


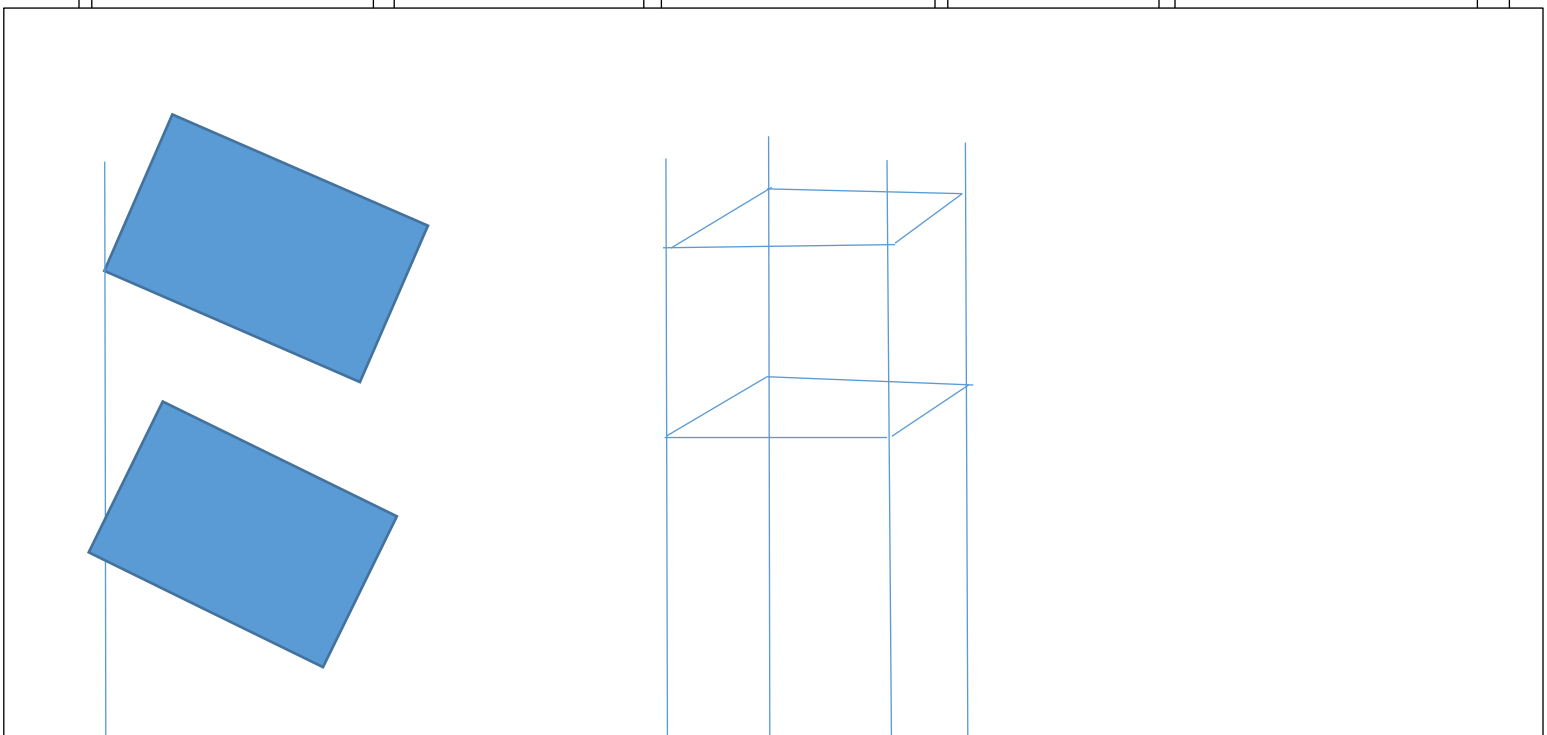
Pv installation 6.5 to 250kw,grid

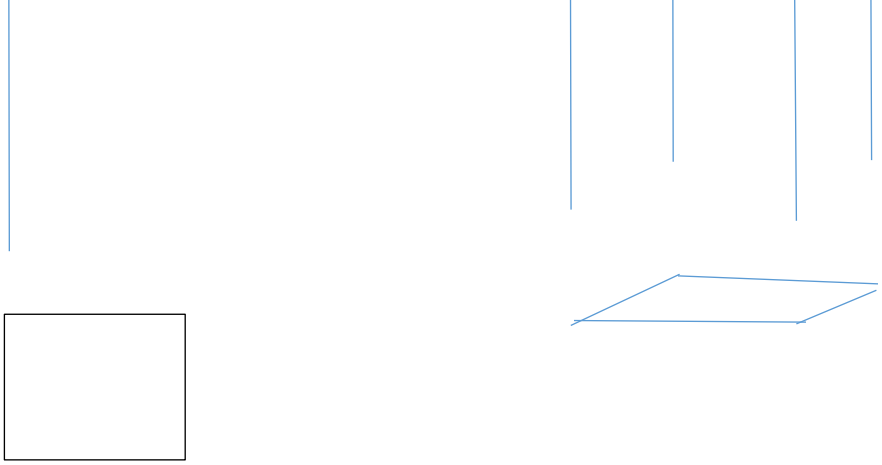



Q3




Workshop 1
Workshop 2
Workshop3





Main station substation

Function connection mv,db

Function 3 protection Mv/lv

Function 1 connection mv utility db network

Function metering at mv level

Function general

Function 3 mv/lv tfo

Function nvlv tfo

Function

PLC COMMUNICATION PROGRAMME

PLC IP ADRESS 10,126,224,221

PLC

PLC READ DATA

PLC WRITE DATA 002

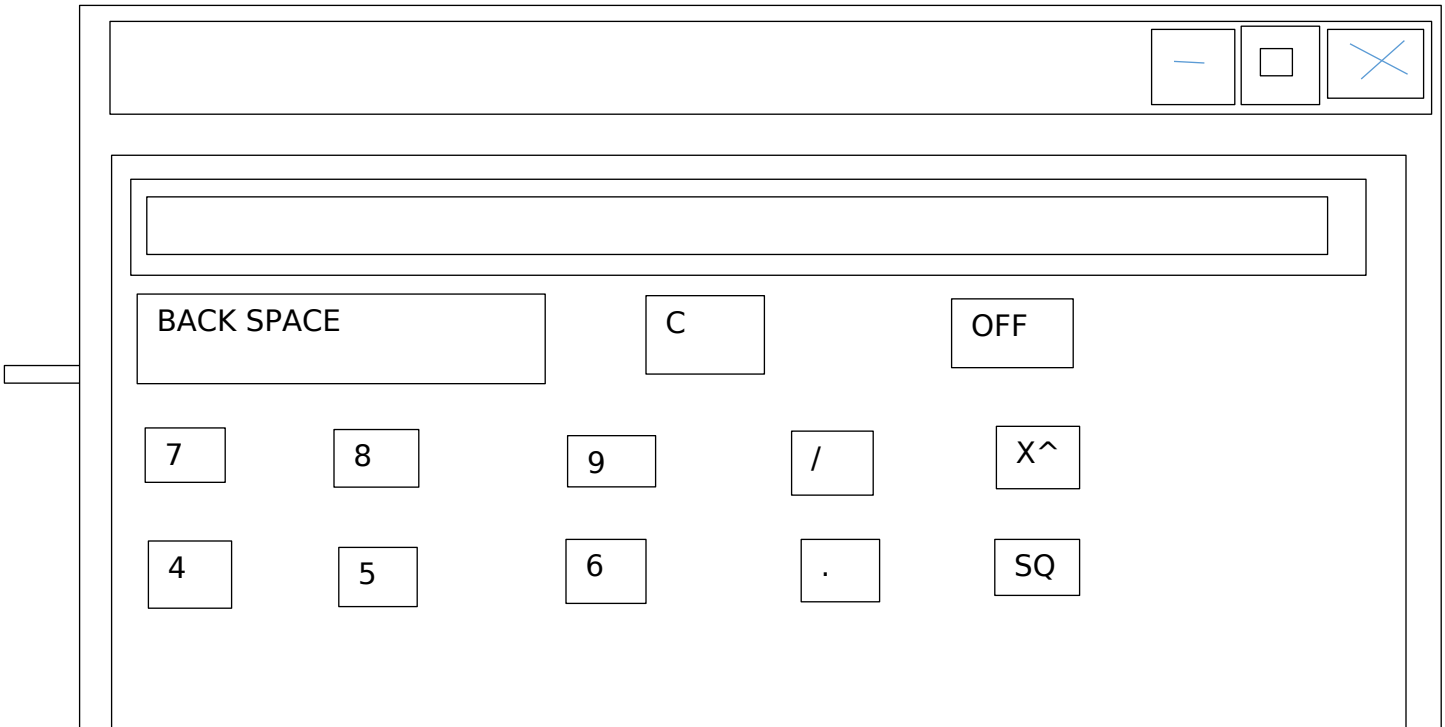
DISCONNECT

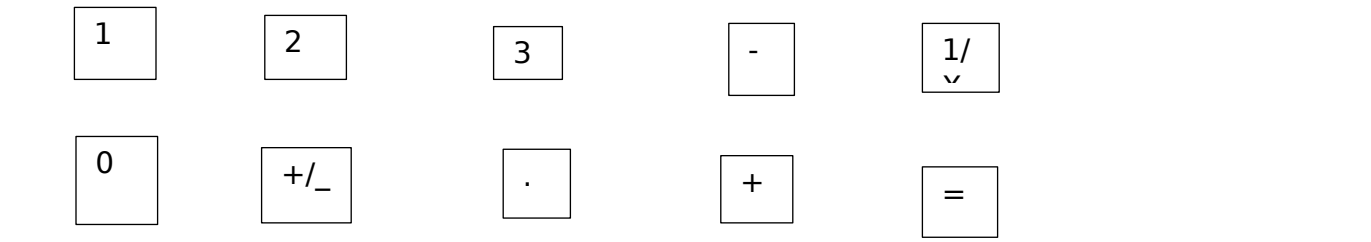
READ DATA FROM PLC

WRITE DATA TO PLC

TSHINGOMBE@GMAIL.COM

CALCULATOR





BASIC SOFTWARE ENGINEERING CONCEPT SOLVE ELECTRICAL AND ELECTRONICS ENGINEERING PROBLEM ..TESTING DOCUMENTING I/O PROGRAMME BASIC STRUCTURE DESIGN USING FLOW CHART PROGRAMME DESIGN LANGUAGE , WRITE TEST DOCUMENT LINEAR PROGRAM USING LANGUAGE ,, HEXADECIMAL, SEQUENCE , table logic , convenrsion ,logic gate , and or in sum , sequence logic , bloc diagram, ansychrone , counter and shift register circuit using , circuit construction , building and test counter and shift register circuit , evidence requirent ,,

---

Using modulation the led can be mode to appear bright code the test is below in pbasic and arduino main :..

Int sensor = Ao

Red adc pin 0, bo int led bank =7

If bo<50 then level 1 void set up () {

If b0<100then level 2 pin mode (led bank ,output)

If bo 150 the level 3

Let mark=0 void loop (){

Let space =10 int reading +analogie read (sensor)

Go pulser int value = map (reding ,01023,0,255

Level1:

Lal mark =10 delay (10)

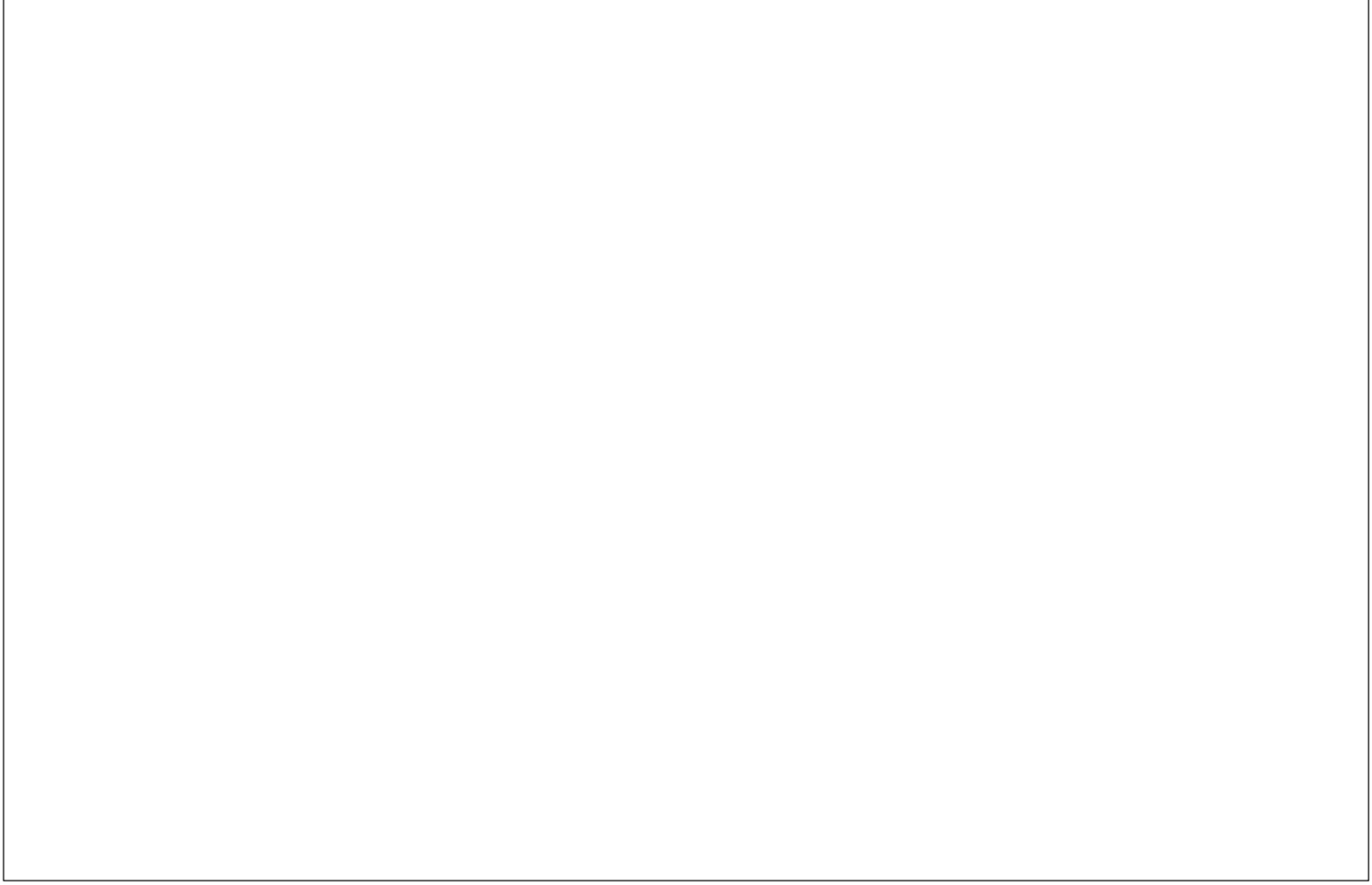
Structure programme   conditional execution construct ……ctional..

-if ……..then ……..else……..

End if   and select case……. Case……end   select…and four iterative   execution loop …, (do….loop, for ….to…for each and while…….the for …..to ….statement has separde ,

-initialisation

- Block statement ,”if …then “or “sub “
- Statement terminer either , line enable (“.”),,,with (“=”),,
- Parenthese bracket are used with arrays both declare ,
- Single mark quotation mark (‘) or key ,,
- Create console , class hello , module 1,
- Sub man ()
- ‘the classic “hello?world”
-
- Consol,
- (hellowordl “)
- End sub
- End module
- Line
- Imports system consol module , integer



Automated student’s registration form, in excel and vba , databse labs

Enter details

Student’s name

Father name

Date of birth

Gender female male

address

Course applied

Mobile number

Email id

Up lod

submit reset

Databse

Sn	Student name	Father name	dob	Gender	Course	Model	Email id	adress	

Renamme data sheet , course , step design data

User form propertie :

Name:frm dataentry

Backcolor:&h0000ffffffffffff&

Caption :student registration form

Height : 484

Width : 571

Control in

Label caption : student ,name

Back control

Tab

Simple calculation in vb visua basic
-first create an interface
- text field
Buttons for the numbers
Buttons the operator
Button for the result
Off clearand back space
-1 option explicit on
3 public class form1
4.dim operand 1.as double
5 .dim operand2 as double
6 dim [operator] as string
Dim has decimal as Boolean
9. dim tmp value as double
En class

Private sub cm add_clic(by val sender as
system .object by .e as system .event args.
2.operand 1+val (txt input .text)
3.text input .text=” “
4 text input .focus()
5[operator]=”+”
6 end sub

1. Private sub button 23 _click by sender system object by val e . as system . event .args) handles button 23.click
2. Dim resul as double
3. Operand 2=val (txt input.text)
4. –
5. Select case [operator]
6. Case “+”
7. Result=operand1+operand2
8. Txtinput.text=result to string
9. Case “^”
10. Result+operand 1^operant 2
11. Result + operant 1*operant 2
12. Txt input text +result .to string ()
13. Case “%”
14. Result +operand
15. Txt input .text +result.to

1.For the decimal

2.private sub cmd decimal click (by val sender as system .event arg.cmd decimal .

Code resetb and initialize form with default form .

Sub reset _form ()

Dim I row as long

With

.txt student name.text=” “

Txt student name backcolor +vb white

Txt father name .text =””

Txt father name back color + vb white .

Txt dob text =”””’’’’’

Read data plc , to send command,plc

Addressto read the

“5000000fff03ff000018000a04010000d*009500000001”

String .cmd=” “;

Cmd=cmd+”5000”;//sub head(not)

Cmd=cmd+”FF”;//plc number

Cmd =cmd +03ff”;//demand object

Module +i/o. number

Cmd=cmd+’000A”;//cpu inspector data

Cmd+cmd +0401”, read command (Data from plc we should “0401”

Cmd+cmd”D*”;//device cod e

Cmd +cmd +009500”address evry plc device will send the appropriate ADRESS READ TO READ

C#

STRING CMD +”” “”;

CMD=CMD+”FF”;//PLC NUMBER

CMD =CMD+”000; NETWORK NUMBER

CMD =”FF”;//PLC NUMBER

CMD = CMD +03FF”; //DEMAND OBJECT

'

' Macro1 Macro

' Code resetb and initialize form with default form . Sub reset _form () Dim I row as long With .txt student name.text=” “ Txt student name backcolor +vb white Txt father name .text =”” Txt father name back color + vb white . Txt dob text =”’’’’’’

'

'

    Application.Goto Reference:="Macro1"

    ActiveWorkbook.Save

    ActiveWorkbook.Save

    Range("B34").Select

    ActiveSheet.Paste

    Range("B36:Y63").Select

    ActiveSheet.ListObjects.Add(xlSrcRange, Range("$B$36:$Y$63"), , xlNo).Name =

_

```
        "Table16"
    Range("Table16[#All]").Select
    ActiveWindow.ScrollRow = 31
    ActiveWindow.ScrollRow = 30
    ActiveWindow.ScrollRow = 29
    ActiveWindow.ScrollRow = 28
    ActiveWindow.ScrollRow = 27
    ActiveWindow.ScrollRow = 26
    Range("O32").Select
    ActiveWindow.ScrollColumn = 1
    Range("B38").Select
    ActiveCell.FormulaR1C1 = "7"
    Range("C38").Select
    ActiveCell.FormulaR1C1 = "8"
    Range("D38").Select
    ActiveCell.FormulaR1C1 = "9"
    Range("E38").Select
    ActiveWorkbook.Save
End Sub


Sub Macro2()
'
' Macro2 Macro
' text field  buttons for the number  operator  button for the result  off , clear , back space  option explicit  public class form 1 dim operand 1 as double dim operad 2 as double  dim {operator} as string  dim has decimal boolean dim tmp nalue  as double
'


'
    Application.Run _
```

"'Copy of PROJECT DRAWING WORKSHET TSHINGOMBE DESIGN ANALYSE ENGIN Book12.xlsx'!Macro2"

End Sub

Sub Macro3()

'

' Macro3 Macro

' "500000fff03ff000018000a0410000d00095000001" string .cmd=" "; cmd=cmd+"5000";//sub head (not) cmd=cmd+"00"//network number cmd+cmd+"ff";//plc number cmd+""03ff";//demand object module i/o.number cmd=cmd+"001c";length demand data cmd=cmd+cmd+000A";cpu in

'

'

End Sub

UserForm1 - 1
Private Sub Label9_Click()
End Sub
Private Sub OptionButton1_Click()
End Sub
Private Sub OptionButton2_Click()
End Sub
Private Sub TextBox1_Change()
End Sub
Private Sub TextBox2_Change()
End Sub
Private Sub TextBox3_Change()
End Sub
Private Sub TextBox4_Change()
End Sub
Private Sub TextBox6_Change()
End Sub
Private Sub TextBox7_Change()
End Sub
Private Sub TextBox8_Change()
End Sub
Private Sub UserForm_Click()
End Sub
Private Sub UserForm_DblClick(ByVal Cancel As MSForms.ReturnBoolean)
End Sub
Private Sub UserForm_Initialize()
End SubUserForm2 - 1
Private Sub CommandButton13_Click()
End Sub
Private Sub CommandButton17_Click()
End Sub
Private Sub CommandButton3_Click()

```
End Sub
Private Sub CommandButton7_Click()
End Sub
Private Sub Label1_Click()
End Sub
Private Sub TextBox1_Change()
End Sub
Private Sub TextBox1_DblClick(ByVal Cancel As MSForms.ReturnBoolean)
End SubUserForm3 - 1
Private Sub Label4_Click()
End Sub
Private Sub Label5_Click()
End Sub
Private Sub TextBox1_Change()
End Sub
Private Sub UserForm_Click()
End SubModule1 - 1
Sub Macro1()
'
' Macro1 Macro
' Code resetb and initialize form with default form . Sub reset _form () Dim I row as long With
.tx
t student name.text=” “ Txt student name backcolor +vb white Txt father name .text =””
Txt father n
ame back color + vb white . Txt dob text =”””’’’’’
'
'
Application.Goto Reference:="Macro1"
ActiveWorkbook.Save
ActiveWorkbook.Save
Range("B34").Select
ActiveSheet.Paste
Range("B36:Y63").Select
ActiveSheet.ListObjects.Add(xlSrcRange, Range("$B$36:$Y$63"), , xlNo).Name = _
"Table16"
Range("Table16[#All]").Select
ActiveWindow.ScrollRow = 31
ActiveWindow.ScrollRow = 30
ActiveWindow.ScrollRow = 29
ActiveWindow.ScrollRow = 28
ActiveWindow.ScrollRow = 27
ActiveWindow.ScrollRow = 26
Range("O32").Select
ActiveWindow.ScrollColumn = 1
Range("B38").Select
ActiveCell.FormulaR1C1 = "7"
Range("C38").Select
ActiveCell.FormulaR1C1 = "8"
Range("D38").Select
ActiveCell.FormulaR1C1 = "9"
Range("E38").Select
ActiveWorkbook.Save
End Sub
Sub Macro2()
'
```

```
' Macro2 Macro
' text field buttons for the number operator button for the result off , clear , back space optio
n explicit public class form 1 dim operand 1 as double dim operad 2 as double dim
{operator} as stri
ng dim has decimal boolean dim tmp nalue as double
'
'
Application.Run _
"'Copy of PROJECT DRAWING WORKSHET TSHINGOMBE DESIGN ANALYSE ENGIN
Book12.xlsx'!Macro2"
End Sub
Sub Macro3()
'
' Macro3 Macro
' "500000fff03ff000018000a0410000d00095000001" string .cmd=" ";
cmd=cmd+"5000";//sub head (not) cmd=c
md+"00"//network number cmd+cmd+"ff";//plc number cmd+""03ff";//demand object
module i/o.number cmd=cm
d+"001c";length demand data cmd=cmd+cmd+000A";cpu in
'
'
End SubModule2 - 1Class1 – 1

UserForm3 - 1

Private Sub Label4_Click()

End Sub

Private Sub Label5_Click()

End Sub

Private Sub TextBox1_Change()

End Sub

Private Sub UserForm_Click()

End Subplc communication program

plc ip adress

plc read data

plc write data

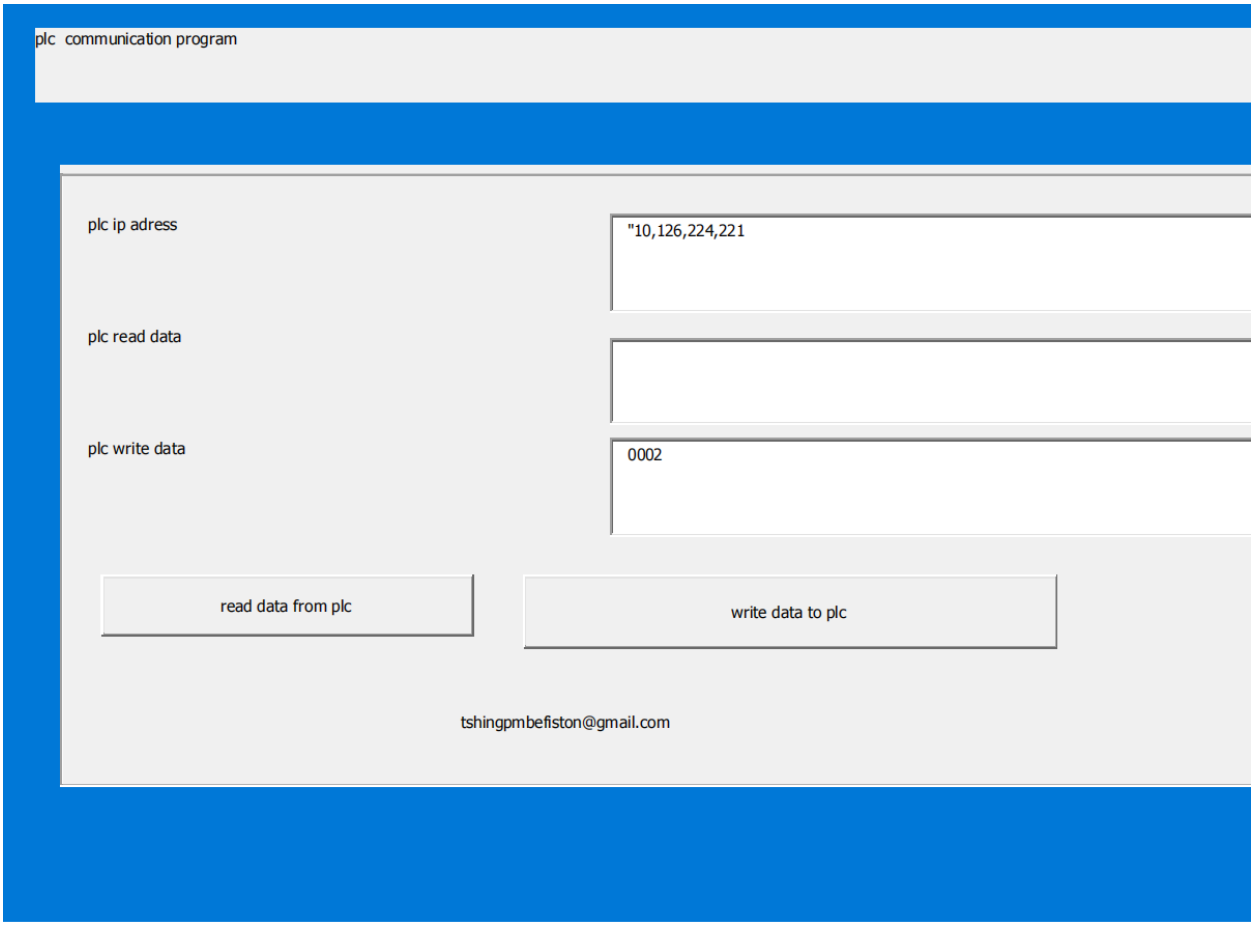
"10,126,224,221

0002

tshingpmbefiston@gmail.com

read data from plc

write data to plc
```



UserForm2 - 1
Private Sub CommandButton13_Click()
End Sub
Private Sub CommandButton17_Click()
End Sub
Private Sub CommandButton3_Click()
End Sub
Private Sub CommandButton7_Click()
End Sub
Private Sub Label1_Click()
End Sub
Private Sub TextBox1_Change()
End Sub
Private Sub TextBox1_DblClick(ByVal Cancel As MSForms.ReturnBoolean)
End Subcalculator
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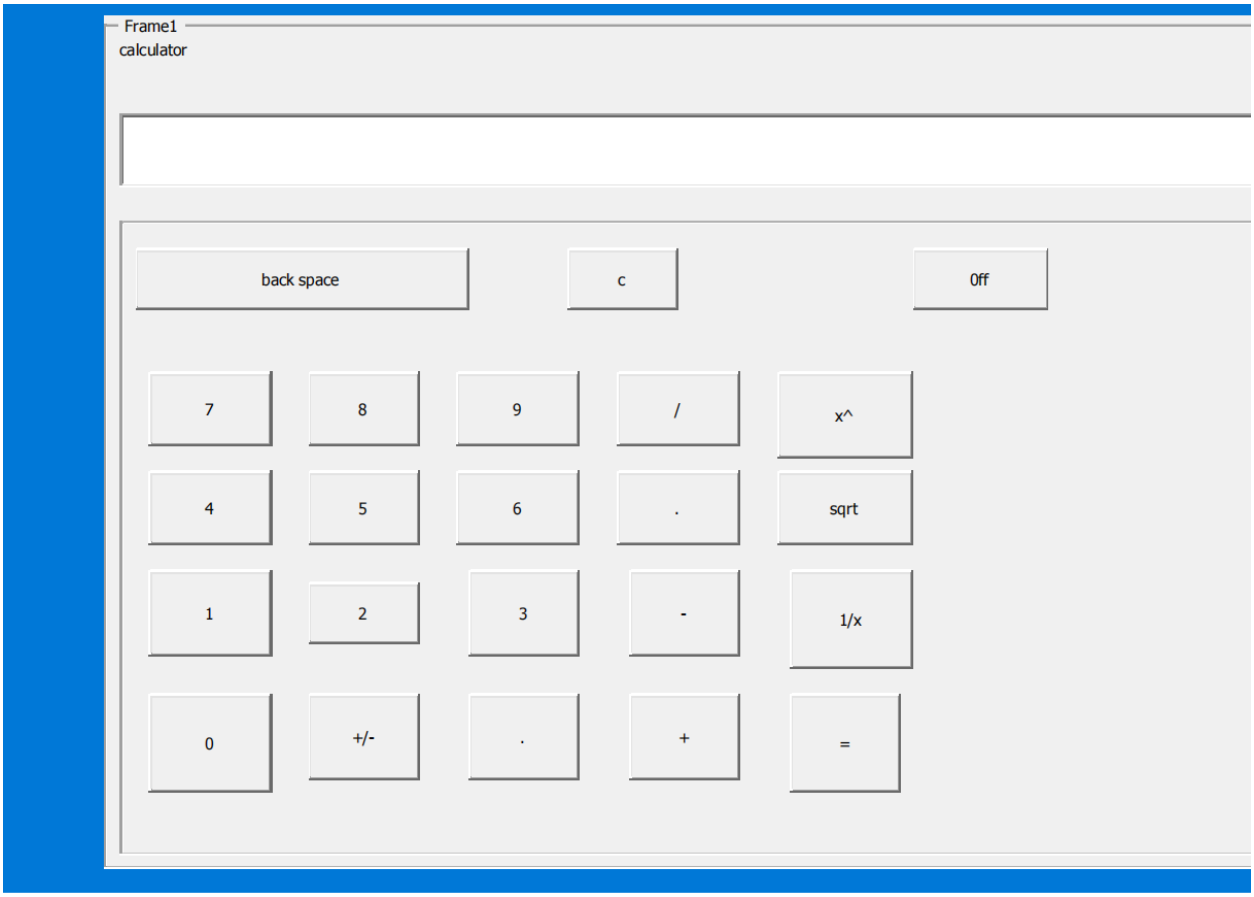
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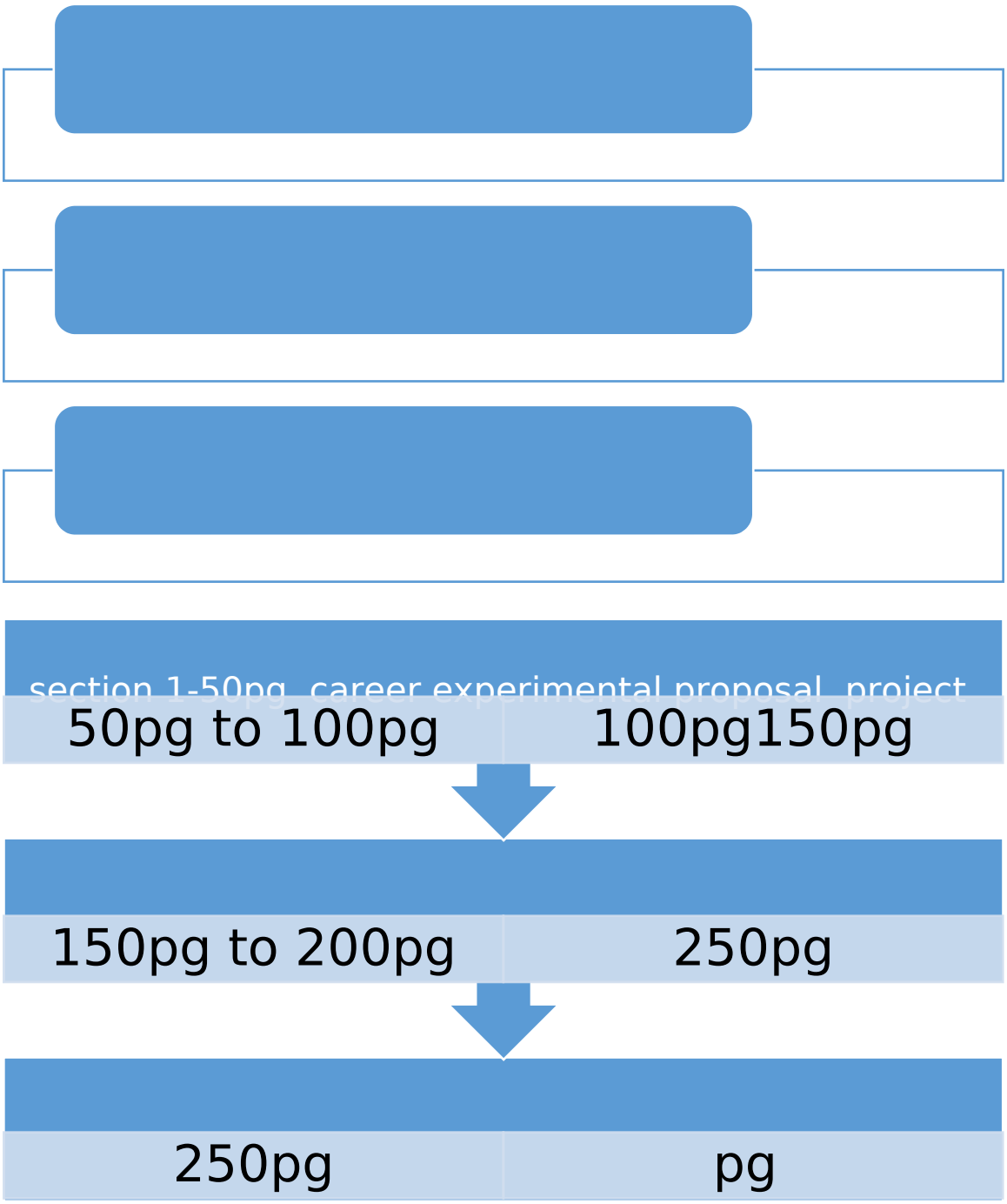
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-Name : tshingombe Tshitadi

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course title	course objectives	course description	activity to carry out	ID source of
Advanced Electromagnetic Theory	Advanced Electromagnetic Theory: This delves into Maxwell's equations, electromagnetic waves, and their applications in various fields such as antenna design, microwave engineering, and more.	Course Descriptions	Advanced Electromagnetic Theory	Sources for Advanced Electrical Engineering Courses
Digital Signal Processing				
Control Systems Design	Digital Signal Processing (DSP): This involves the analysis and manipulation of signals. It's crucial in areas such as communications, audio and speech processing, radar, and image processing.	Advanced Electromagnetic Theory: This course delves into the intricacies of Maxwell's equations and their applications. Topics include electromagnetic wave propagation, radiation, and scattering. Students will learn to design and analyze antennas, microwave circuits, and other electromagnetic devices.	Objectives:	1.
Advanced Communication Systems				Advanced Electromagnetic Theory
Power Systems Engineering	Control Systems Design: This focuses on designing systems that can control the behavior of other systems. Applications include robotics, aerospace, automotive systems, and industrial automation.	Digital Signal Processing (DSP): This course focuses on the principles and applications of discrete-time signal processing. Topics covered include sampling, digital filter design, Fourier transforms, and signal analysis. Students will gain hands-on experience with MATLAB/Python for implementing DSP algorithms.	•	
Renewable Energy Systems			Understand Maxwell's equations and their applications.	2.
VLSI (Very Large Scale Integration) Design	Advanced Communication Systems: This covers the principles and technologies behind modern communication systems, including wireless communications, fiber optics, and satellite communications.	Control Systems Design: This course covers the design and analysis of feedback control systems. Students will learn about root locus, frequency response, and state-space methods for controller design. Applications include robotics, aerospace, and automotive systems.		1.
Machine Learning in Electrical Engineering			•	Books: "Classical Electrodynamics" by John David Jackson, "Principles of Electrodynamics" by Melvin Schwartz
	Power Systems Engineering: This involves the generation, transmission, and distribution of electrical power. It covers topics such as power system stability, smart grids, and renewable energy integration.	Advanced Communication Systems: This course explores the principles of modern communication systems. Topics include modulation and demodulation, noise analysis, and the design of wireless and optical communication systems. Students will also study the latest advancements in communication technologies.	•	
			Analyze electromagnetic wave propagation in different media.	2.
	Renewable Energy Systems: This explores the technologies and systems used to generate energy from renewable sources like solar, wind, and hydroelectric power. It's increasingly important for sustainable development.	Power Systems Engineering: This course covers the generation, transmission, and distribution of electrical power. Topics include power system stability, protection, and smart grids. Students will also learn about the integration of renewable energy sources into power grids.		3.
			•	Online Courses: MIT OpenCourseWare, Coursera

	⊡ ⊡ VLSI (Very Large Scale Integration) Design: This involves designing and creating integrated circuits with millions of transistors on a single chip. It's essential for the development of modern electronic devices.	Renewable Energy Systems: This course examines the technologies and systems used to generate energy from renewable sources such as solar, wind, and hydroelectric power. Topics include energy conversion, efficiency analysis, and the design of renewable energy systems.		•	
				Design and analyze antennas and microwave circuits.	4.
	⊡ ⊡ Machine Learning in Electrical Engineering: This examines the application of machine learning techniques to solve problems in electrical engineering, such as predictive maintenance, signal processing, and system optimization	VLSI (Very Large Scale Integration) Design: This course focuses on the principles of designing integrated circuits with millions of transistors. Topics include digital and analog circuit design, fabrication processes, and the use of VLSI design tools. Students will gain practical experience in designing and simulating VLSI circuits.			3.
				•	Digital Signal Processing (DSP)
	⊡ ⊡ Advanced Electromagnetic Theory: This delves into Maxwell's equations, electromagnetic waves, and their applications in various fields such as antenna design, microwave engineering, and more.	Machine Learning in Electrical Engineering: This course introduces the application of machine learning techniques to solve electrical engineering problems. Topics include supervised and unsupervised learning, neural networks, and deep learning. Students will apply machine learning to areas such as predictive maintenance, signal processing, and system optimization.	Activities:		
					4.
	⊡ ⊡ Digital Signal Processing (DSP): This involves the analysis and manipulation of signals. It's crucial in areas such as communications, audio and speech processing, radar, and image processing.	These descriptions should give a comprehensive overview of each course. If you need more detailed information on any specific topic or have any other questions, feel free to ask!		•	1.

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